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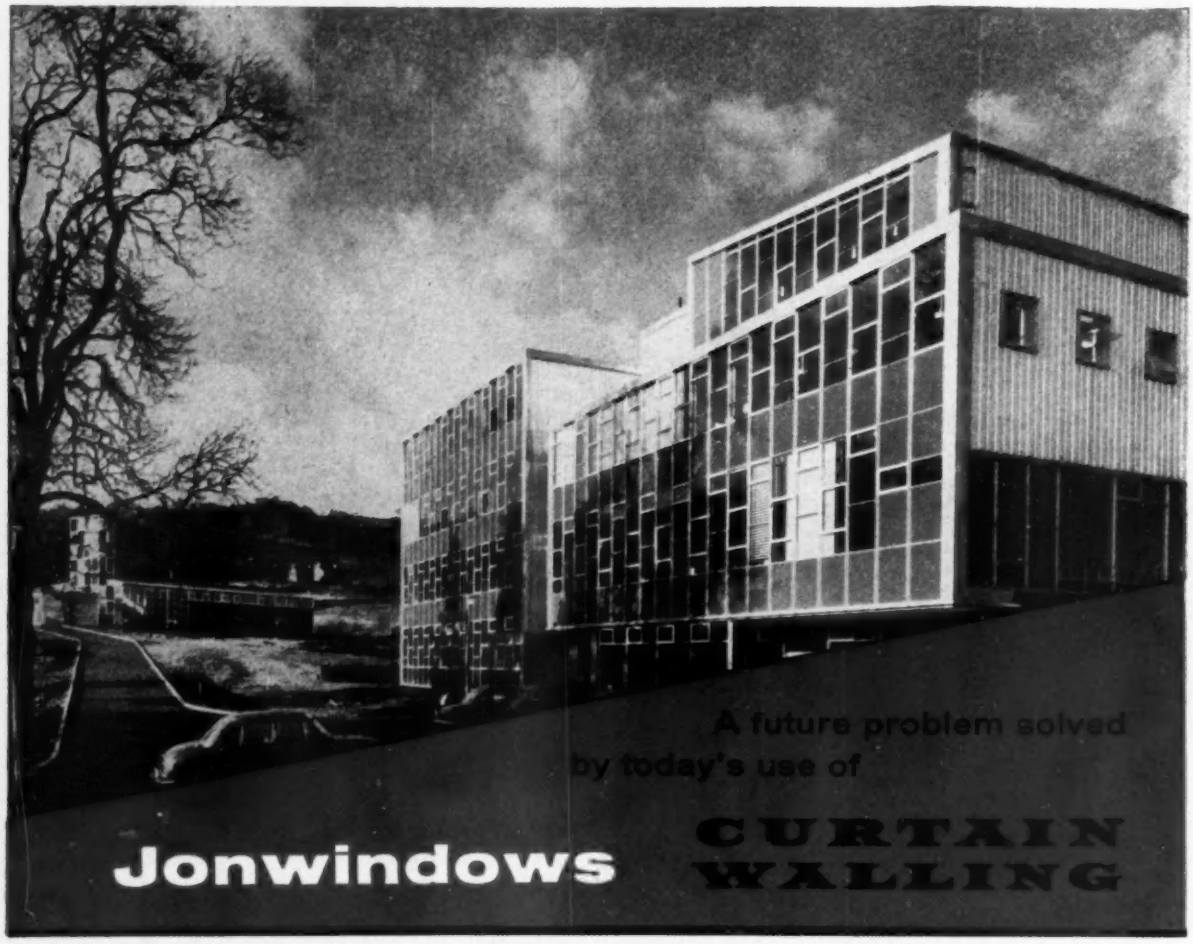

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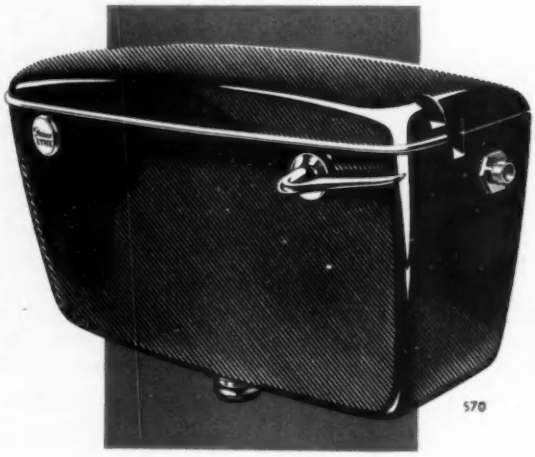

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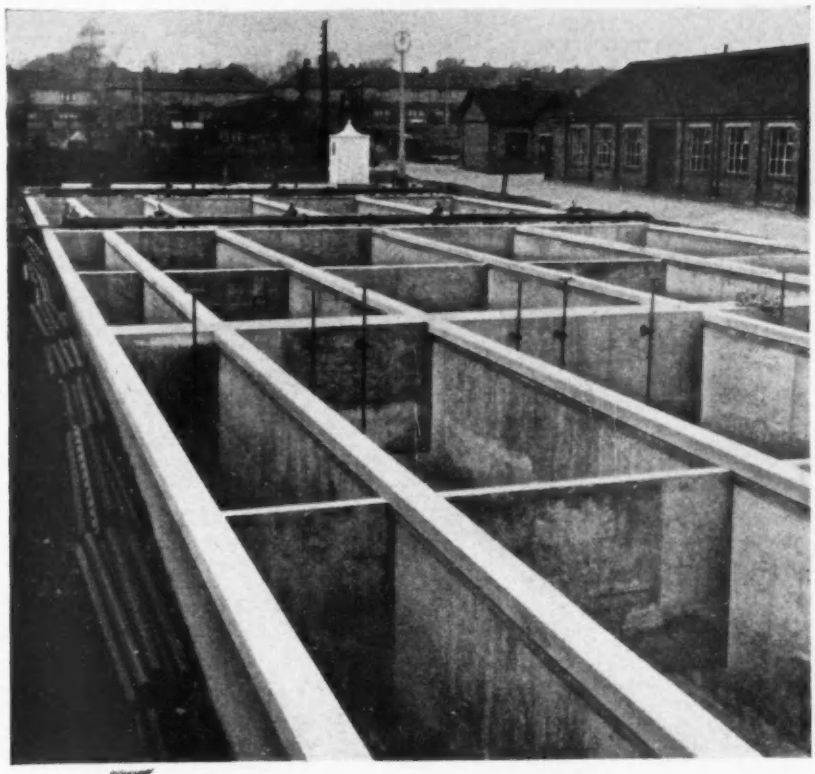

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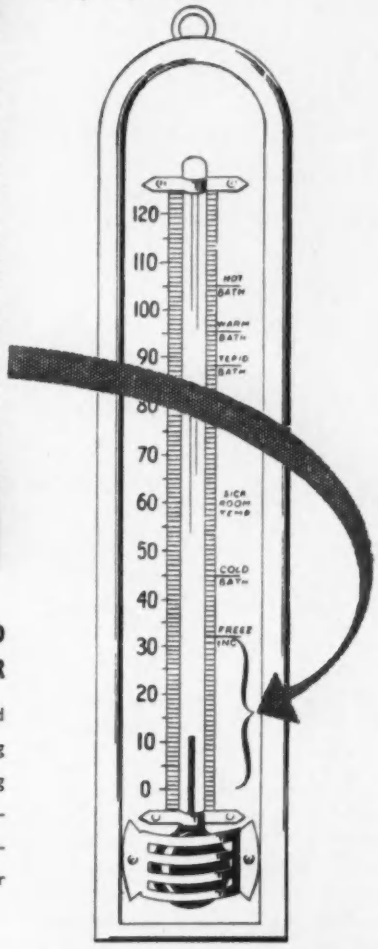

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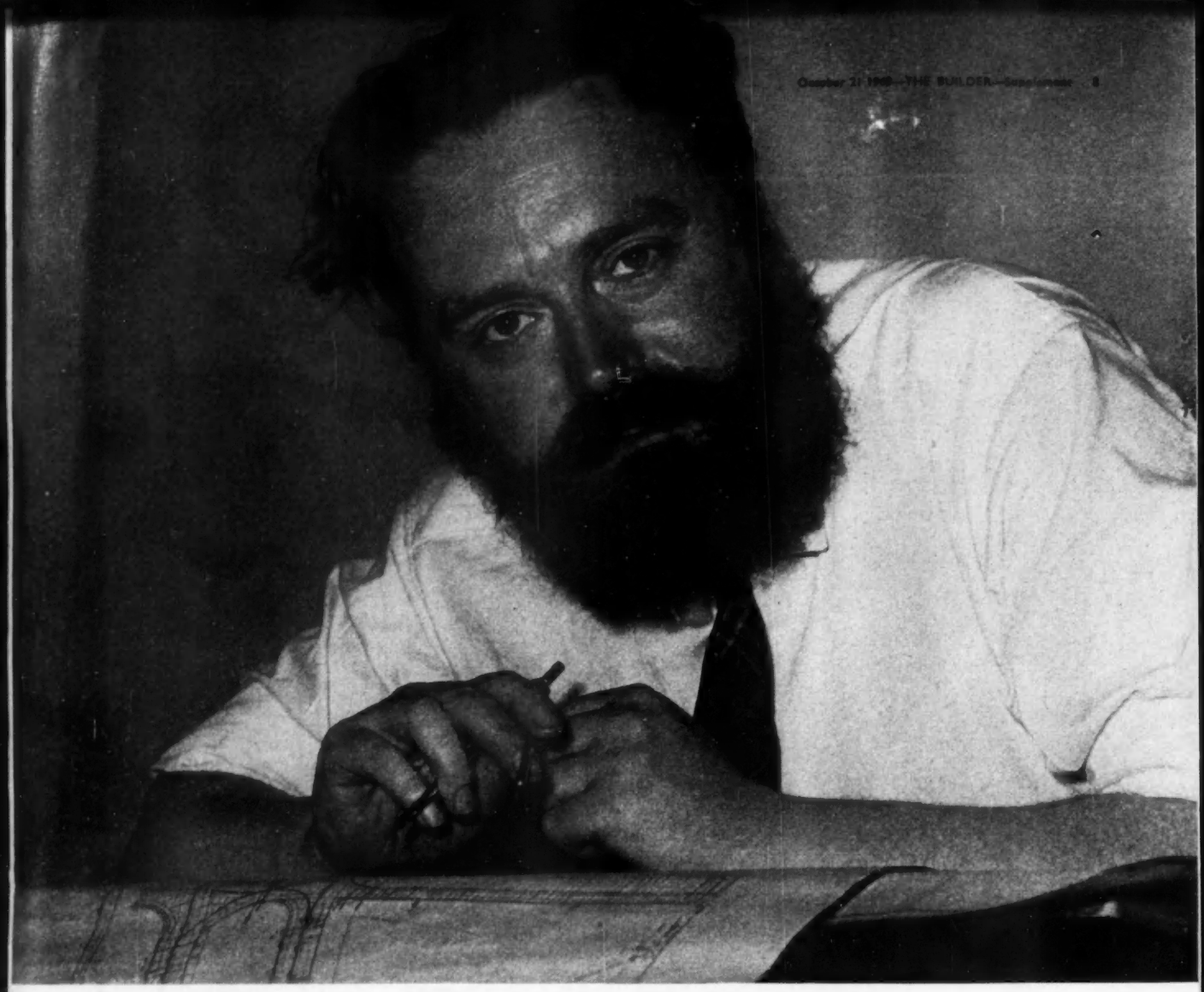

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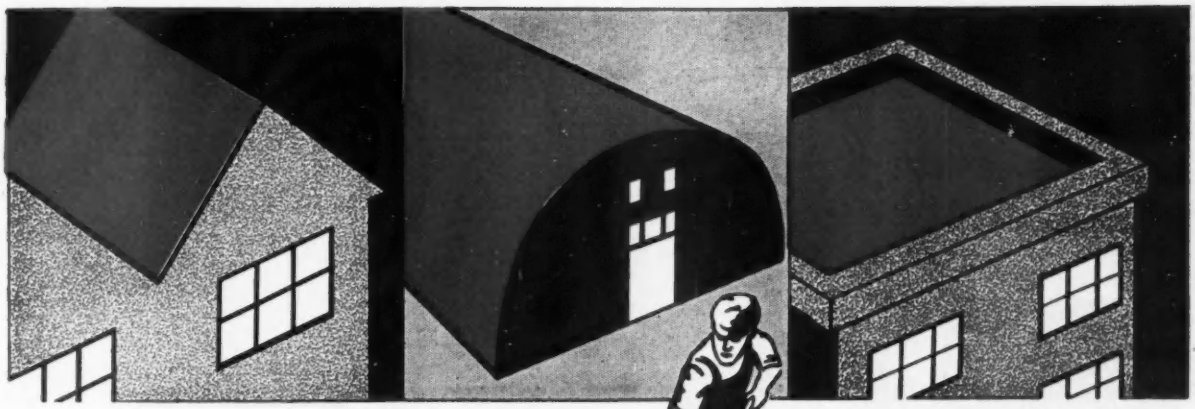

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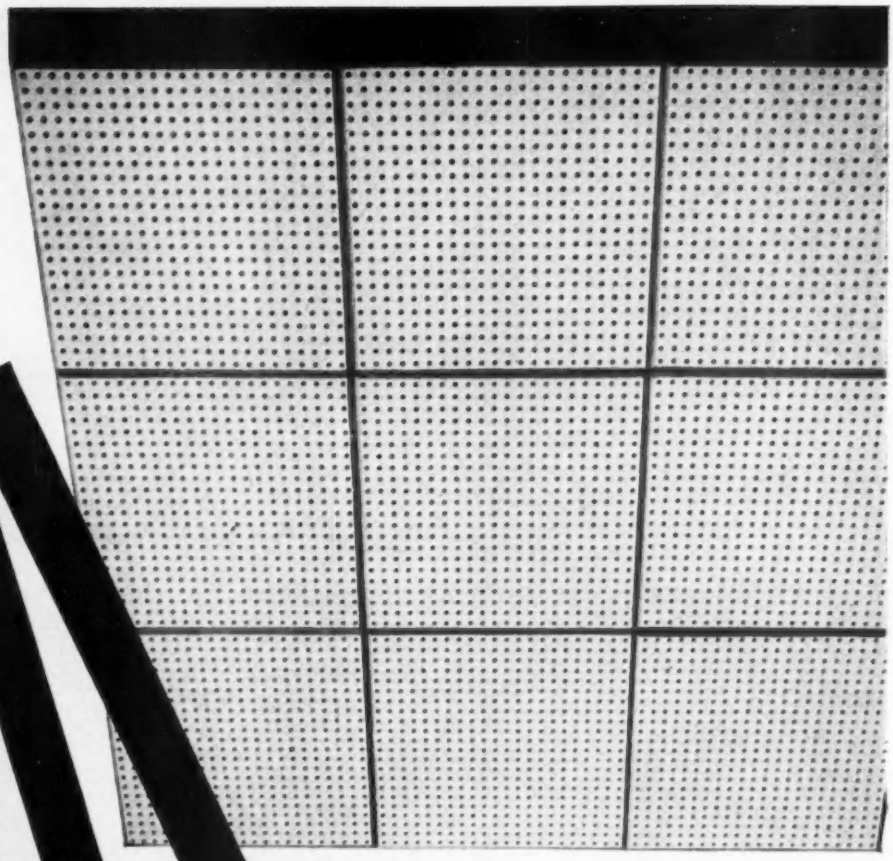

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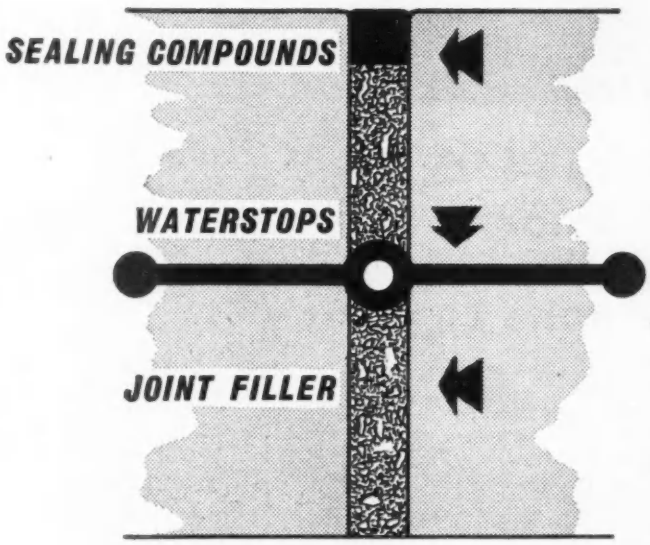

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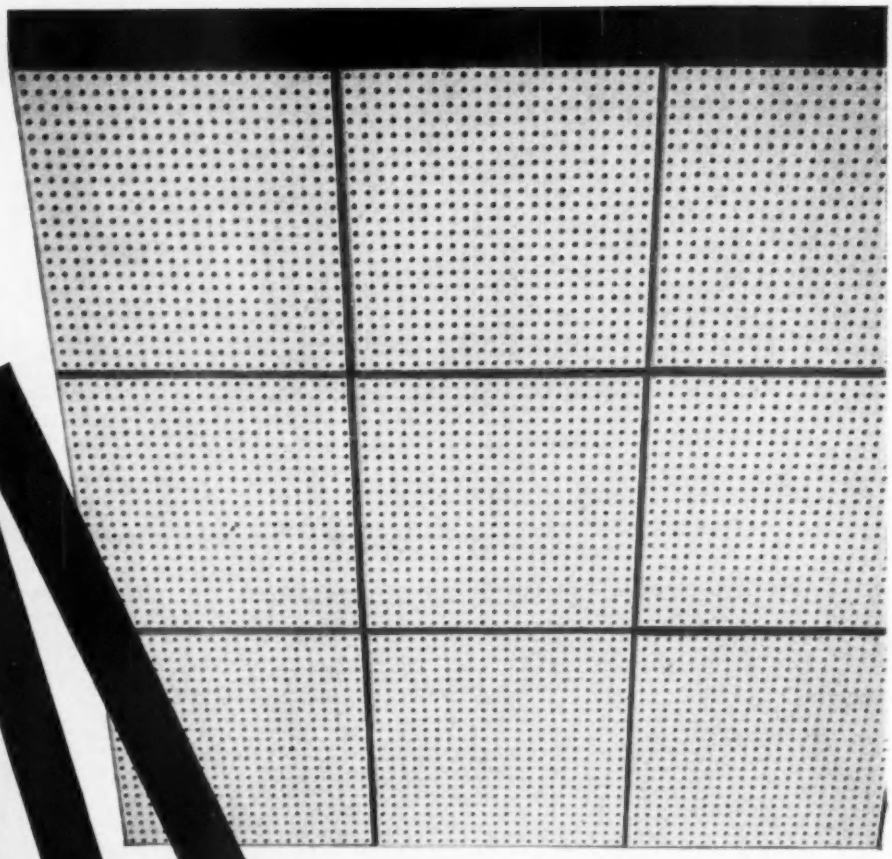

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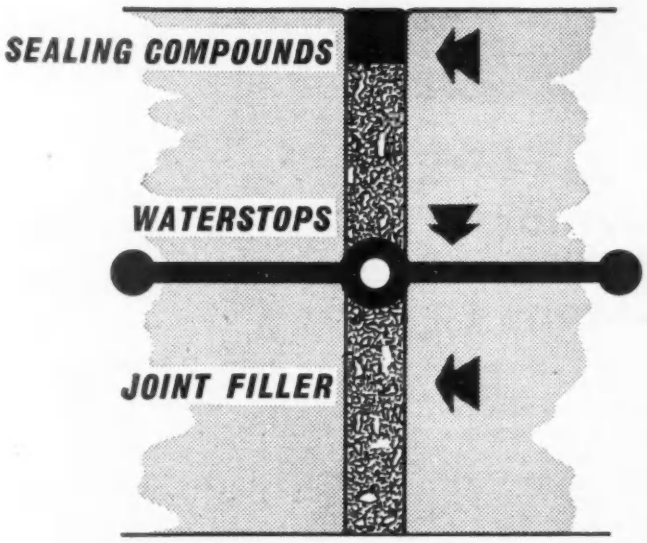

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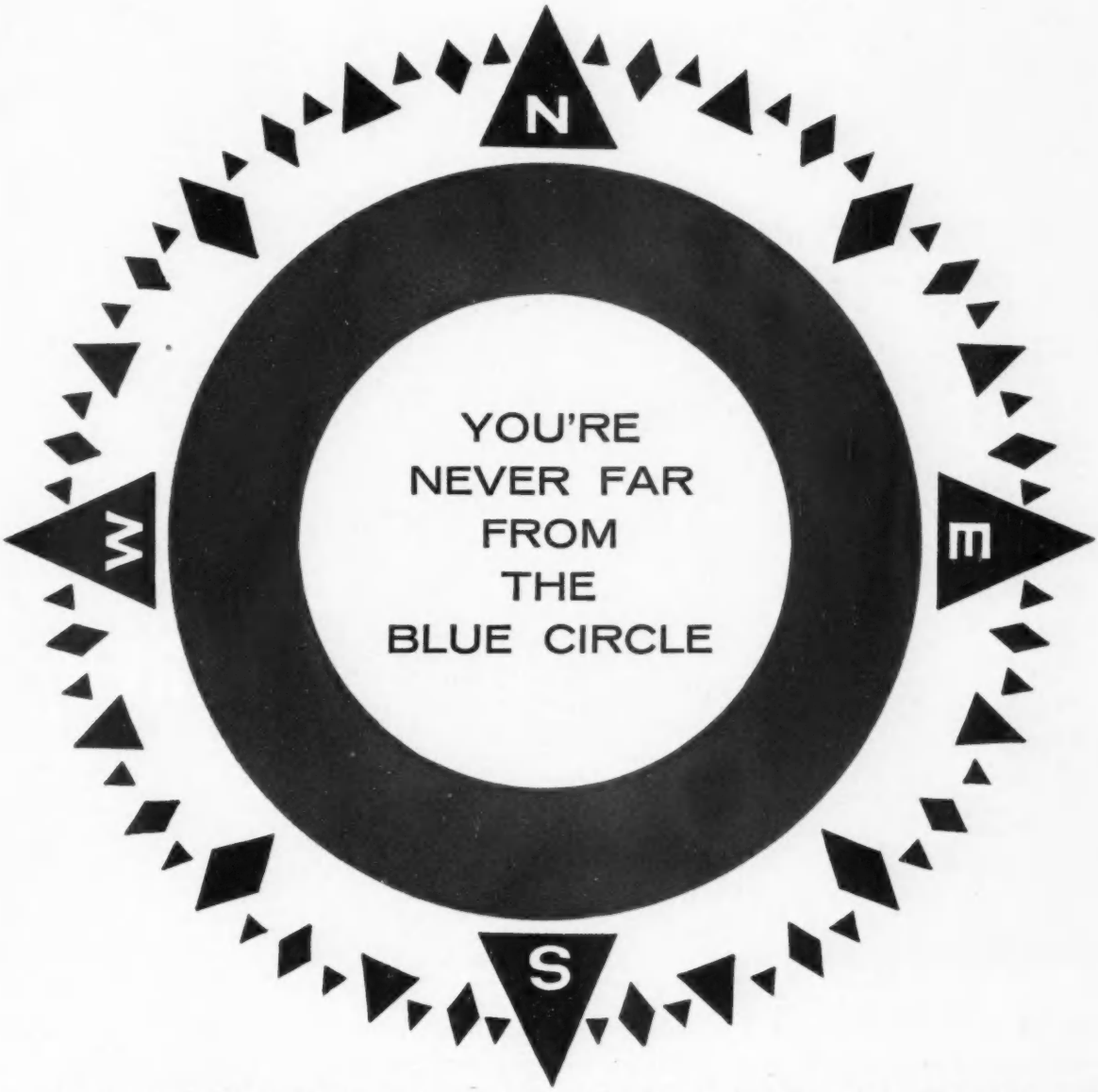

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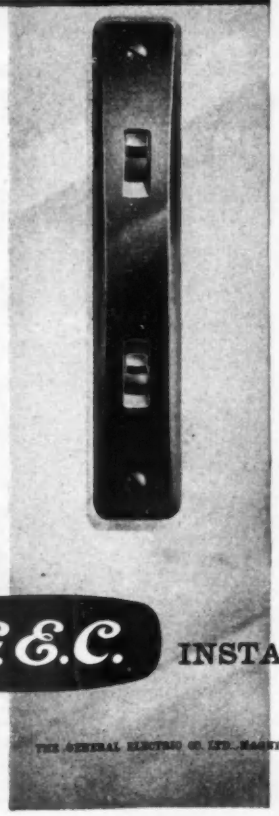

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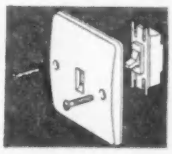

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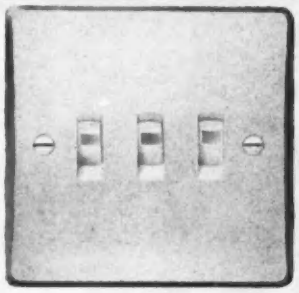

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THE TIMES FRIDAY FEBRUARY 26

CUT IN BUILDING ACCIDENTS "AN URGENT NEED"

CRITICISM OF LACK OF PRECAUTIONS

That an "urgent and immediate need" exists for an improvement in the accident record of the building and civil engineering industries is the main conclusion in a Ministry of Labour report on safety and health in the industries, published yesterday.

In an introduction to the report, Mr. T. W. McCullough, Chief Inspector of Factories, writes: "There are still far too many accidents on construction work and employers and operatives alike must continue to use every endeavour if real progress is to be made in making the industries safer." The most encouraging development in recent years, Mr. McCullough continues, has been the setting up of a number of safety training centres.

In the years under review, 1954 to 1958, the report itself noted that the number of accidents at building operations had risen from 13,903 in 1954, of which 172 were fatal, to 15,017 in 1958, with 207 fatalities, both figures being the highest recorded. Similarly, the figures at works of engineering construction were 2,172, of which 42 were fatal, in 1954, and had risen to a peak of 2,329 and 51 respectively in 1958.

MANY FALLS

Falls from working places provided the highest number of deaths at building operations. These were usually due either to a lack of guard rails and toe boards, or to working platforms of an inadequate width.

Falls from sloping roofs were due in the main to a lack of roof ladders or to incorrect anchoring, failure to use a proper working platform, and a shortage of protection around the roof at eaves level. Falls on the flat, although not often resulting in serious injury, produced the highest total of falls. Some of these were caused by bad lighting or by moving loads when vision was obstructed.

Referring to the careless handling of explosives in demolition work, the report suggested that the manner in which explosives were used was sometimes "extremely slack."

Standards of welfare varied greatly from site to site and from employer to employer. The report noted that many building sites were poorly equipped with first-aid requisites in contravention of existing regulations. Messroom standards did not appear to have improved greatly. At some smaller sites they were nothing more than "the most rudimentary shelters." A number of contractors, however, had successfully used mobile trailers as kitchens and canteens before permanent site buildings had been erected.

Report on Safety and Health in the Building and Civil Engineering Industries 1954-1958 (Cmnd. 953, Stationery Office, 1s. 6d.).

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2 The slipping of an insecure scaffold coupler is impossible — there are no couplers in SAFWAY.

3 Double guard rails, or guard rails plus cross-bracing are standard with SAFWAY.

4 The new SAFWAY short length board is the safest form of decking in the world. The boards just drop into place — board end meets board end . . . no overlapping.

5 The latest form of SAFWAY Toe Board conforms to the most stringent regulations and is the cheapest in the end . . . gives added safety.

6 For support work, overhead shuttering or frame work of any description or contour. SAFWAY frames are safer and more economical than props.

Note the clear walkway — 6ft. headroom — wide working gangway — safety boards and guard rails — adding up to ideal working conditions, with Safway Full purpose Unit Frame.

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all contractors and consulting engineers will want to use these *NEW*

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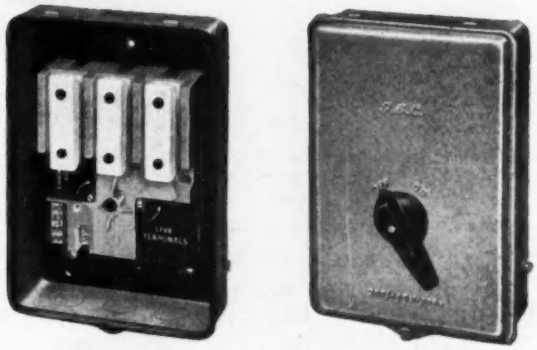

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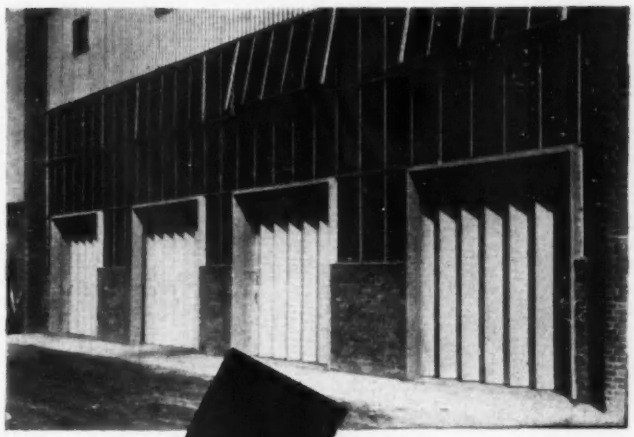

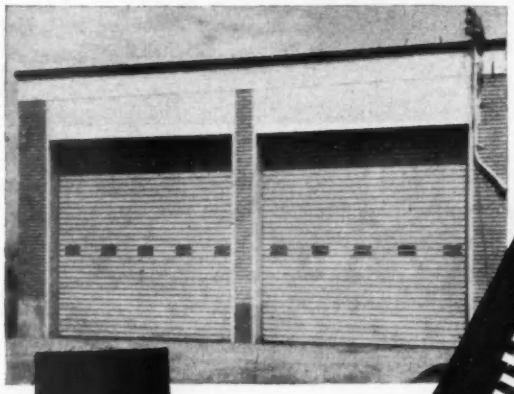

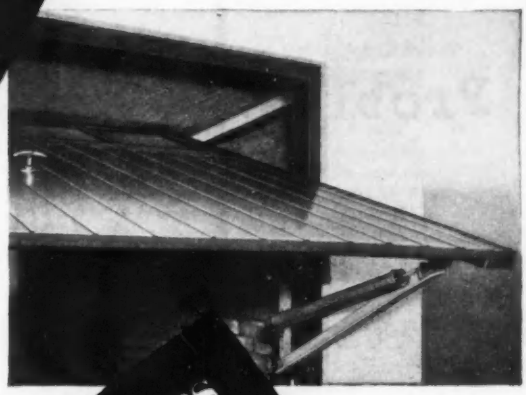

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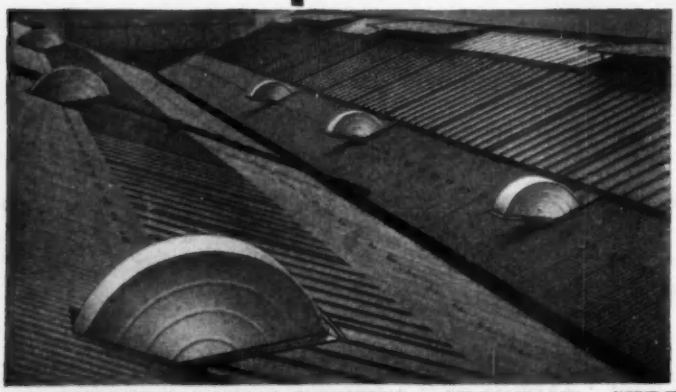

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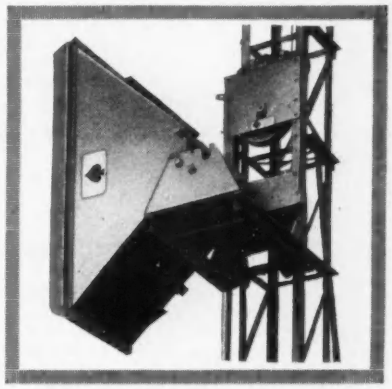

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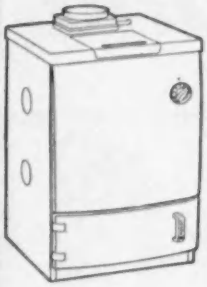
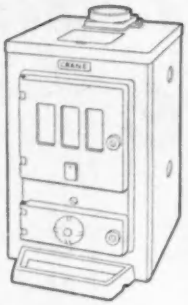
ACE 95

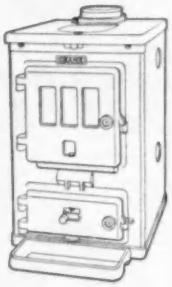
CRANE REVIEW NO.7



CRANE 20 BOILER
For use on hot water storage tanks of 25-35 gallons capacity; 20,000 B.Th.U's per hour. Thermostatic control; hinged fuelling lid; deep ashpan with handle; shaking grate. In cream or white (with black vitreous enamel top-plate).



CRANE 25A BOILER
For hot water storage tanks of 30-35 gallons capacity; 25,000 B.Th.U's per hour. Fitted with shaking grate; hinged fuelling lid. In cream or grey mottle (with black top-plate, smoke nozzle and floor ashtray).



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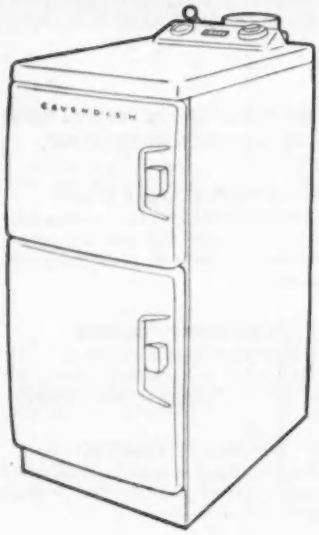

Crane make a boiler for every size of house

There's a Crane boiler for every size of house,
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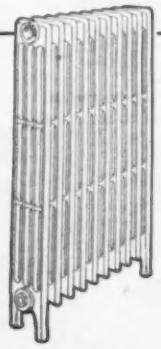
All are well designed, all are thoroughly efficient;
and most are fitted with thermostatic control.



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Crane make radiators for homes, offices, schools and many other buildings. The Pall Mall pattern illustrated is made of cast iron, of elegant design and can be supplied, if required, without legs for bracket mounting.

C7

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flexed to fit curved shapes . . .

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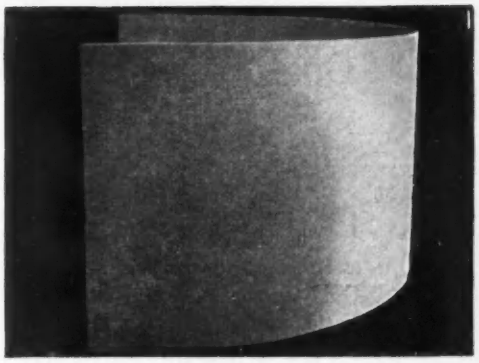

is termite and vermin proofed
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Thickness: 3.3 mm. (full $\frac{1}{8}$")

Sizes: 4′ x 8′, 4′ x 10′

3′ widths in above lengths are produced for forward delivery, also thicknesses full $\frac{3}{16}$" and full $\frac{5}{16}$"

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Opal Corrugated 'Perspex' roof lighting provides ideal working light in a Tripoli Tobacco store

FOR THE PROPER care of the tobacco in this storehouse, good lighting was essential. This was achieved by installing Opal Corrugated 'Perspex' acrylic sheet in the roof.

Opal Corrugated 'Perspex' transmits an evenly diffused working light. It is inexpensive to install and saves money on artificial lighting. It is light, tough, easy to handle, is unaffected by the severest weather conditions, and withstands the corrosive atmospheres of industrial and marine areas.

Clear corrugated 'Perspex' is sold for roof lighting where strong sunlight is not a problem. Corrugated 'Perspex' is available in a wide range of profiles to fit most corrugated roofing materials.

For good roof lighting use

CORRUGATED 'PERSPEX'

'Perspex' is the registered trade mark for the acrylic sheet manufactured by I.C.I.

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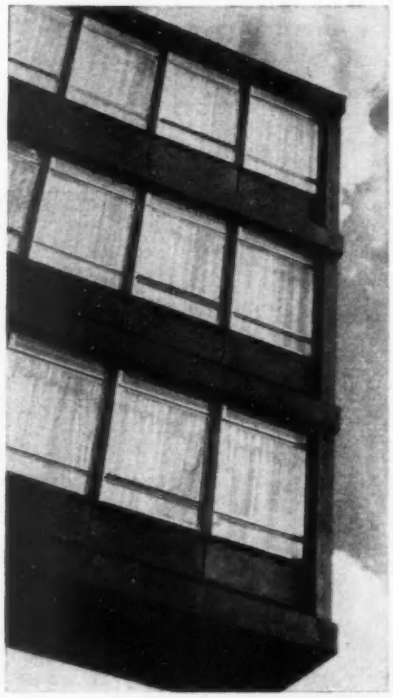
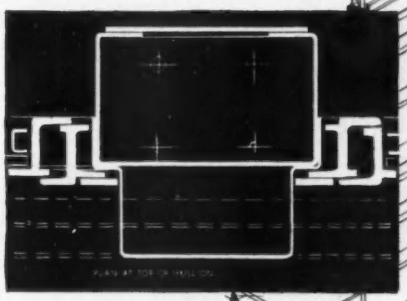
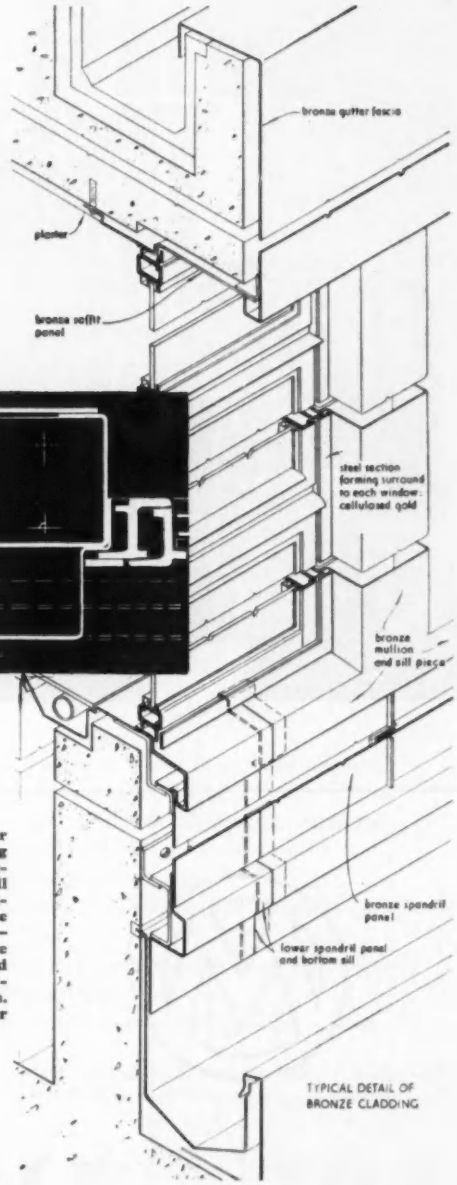


BRONZE CLADDING





TYPICAL DETAIL OF BRONZE CLADDING

Peter Robinson's Store, Strand London

Architects: Denys Lasdun & Partners

Bronze was chosen for cladding the main facade of this fine new building in order to effect a black or bronze black surface which would maintain its colour and texture by natural weathering in the London atmosphere.

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Bronze treated in this manner will retain its colour permanently, provided that precautions are taken to obviate electrolytic action.

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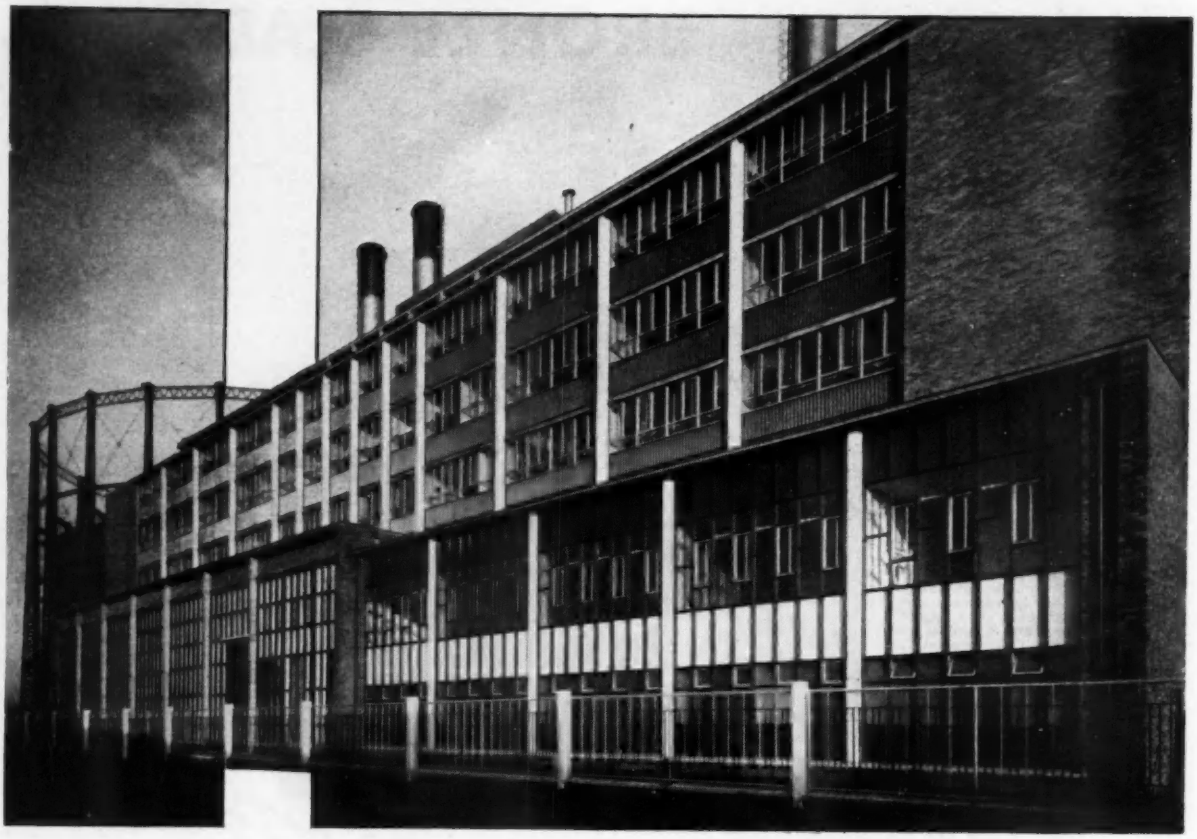

curtain walling

for the
North Western Gas Board, Garston Gas Works

Architect:
Ian MacLaren Esq., A.R.I.B.A.

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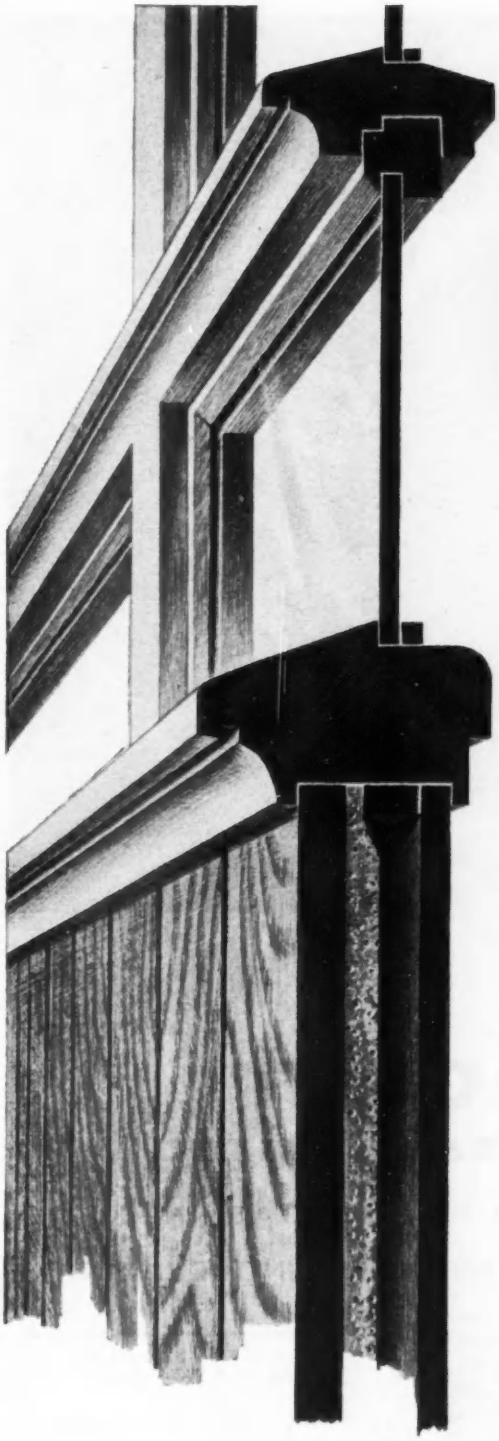

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. . . together with all these important advantages.

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For advice on design and specification for timber curtain walling

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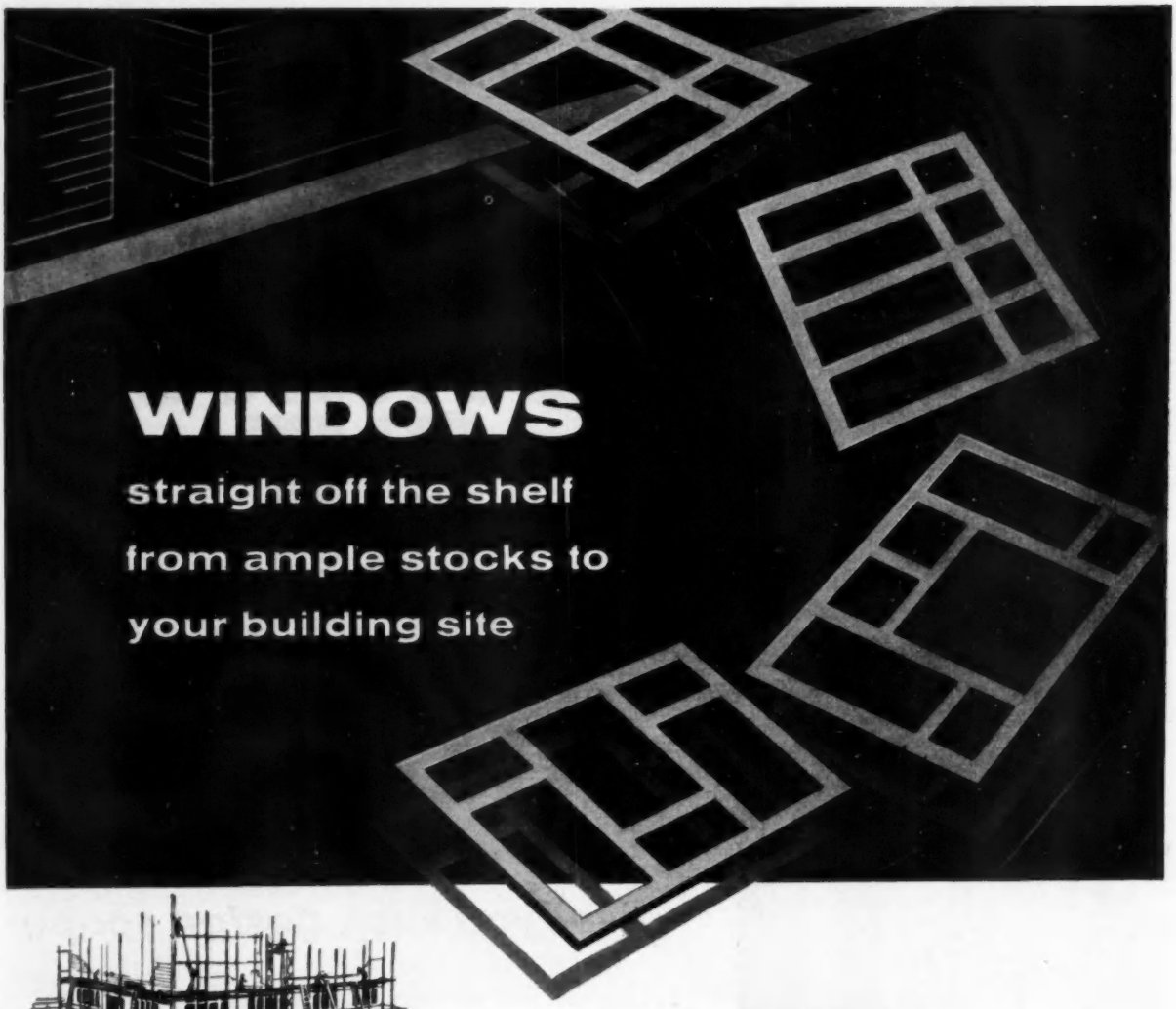

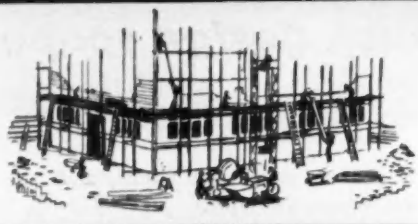

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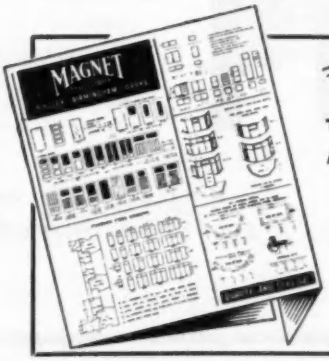

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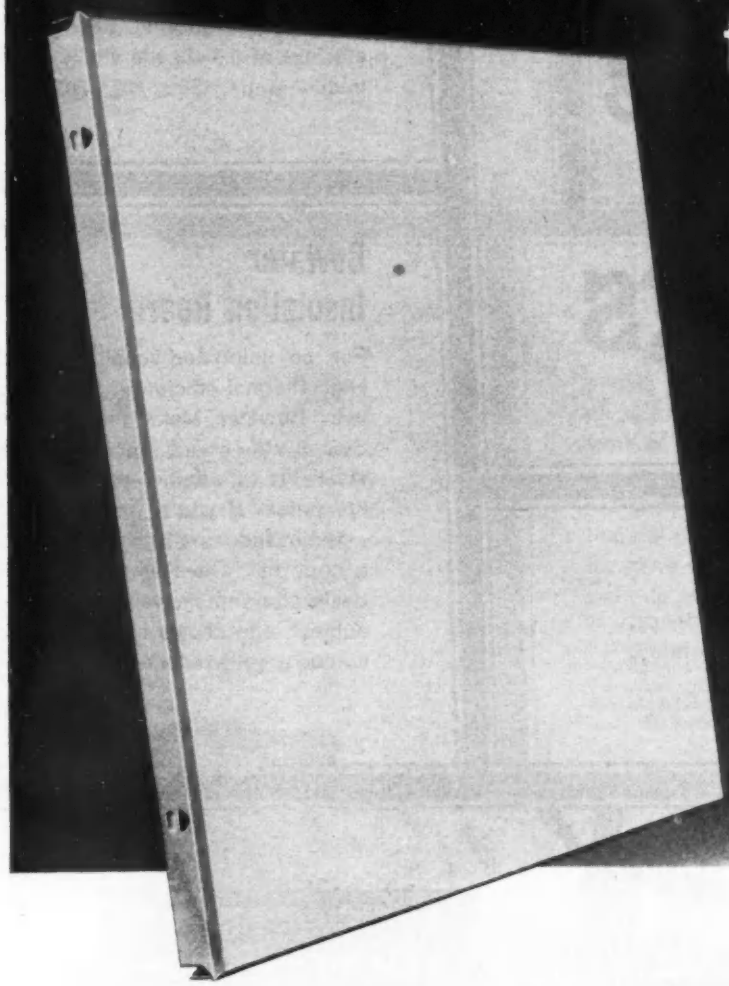
39/- per yard for... fire proof suspended ceilings with thermal insulation and fully decorative finish!



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Bowater module Ceilings

Bowater Metal T/A Panels

Very efficient in keeping noise down and warmth in—and completely incombustible. (Sound absorption coefficient of 0.9—in the vitally important middle range.) Size: 20" x 20" x 1".

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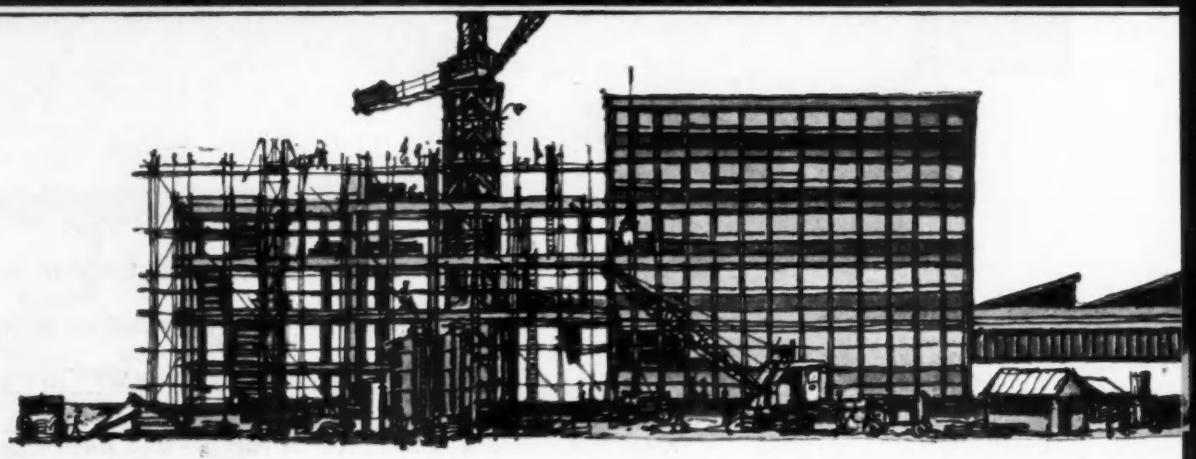

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Read all about Bowater Ceilings

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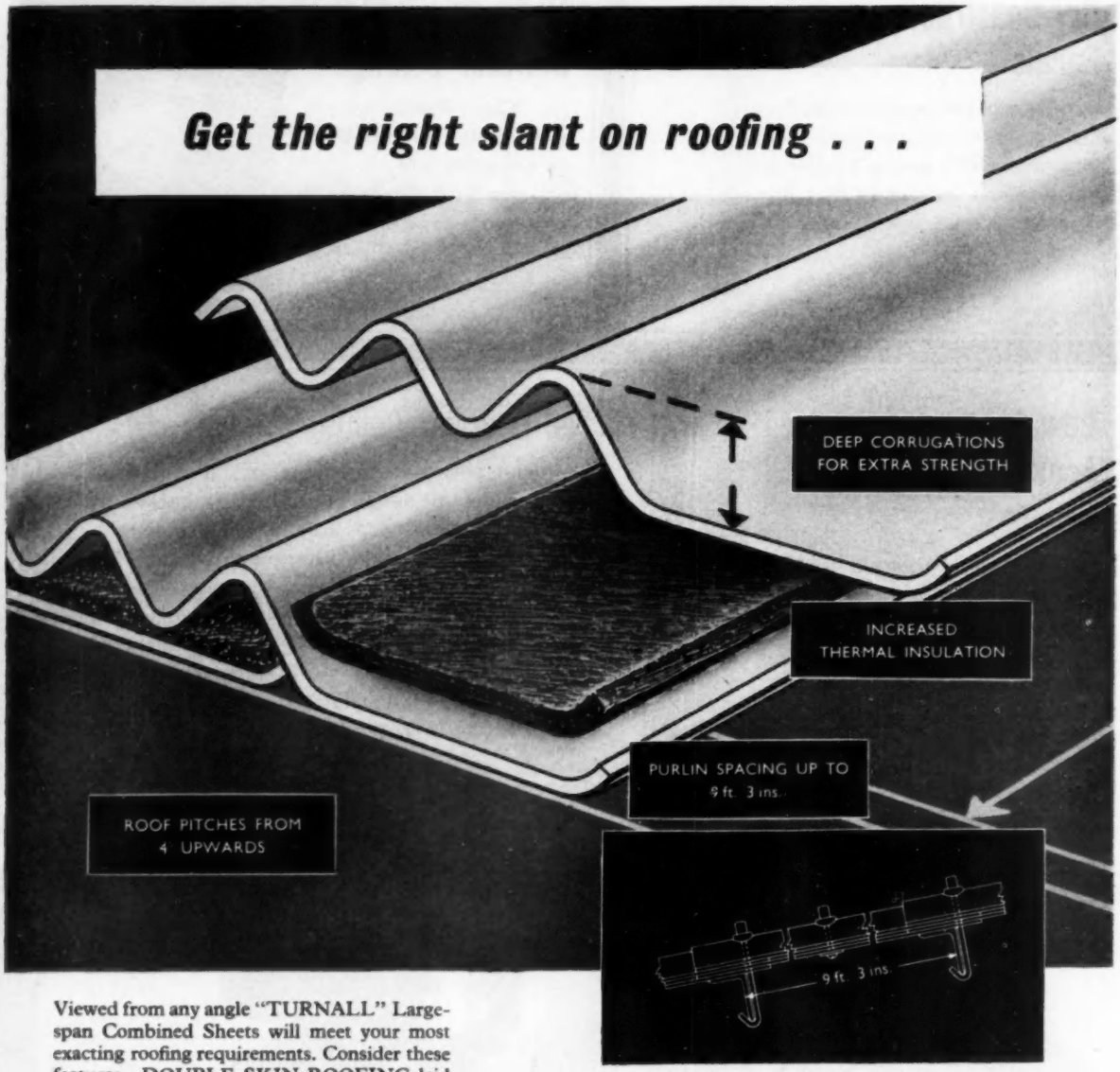

Section showing hookbolts and sag bolt fixings.

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ROOF PITCHES—from 4° upwards

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2. Wood to Concrete	230 lbs.
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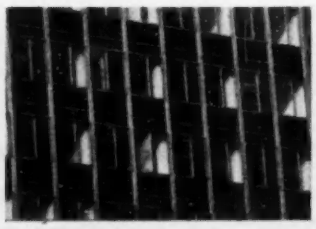

buildings

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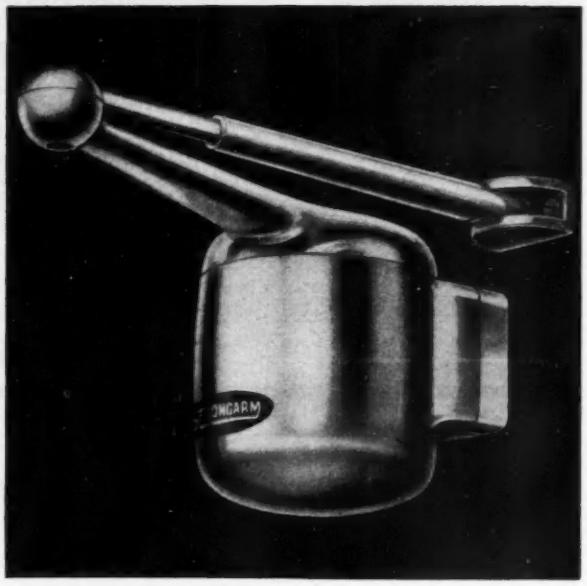

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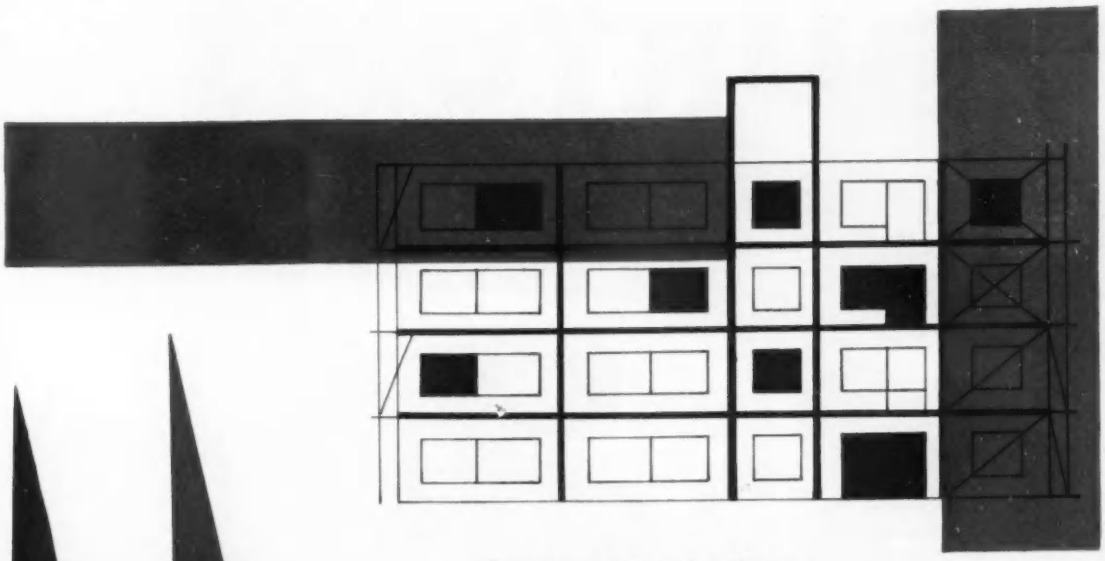

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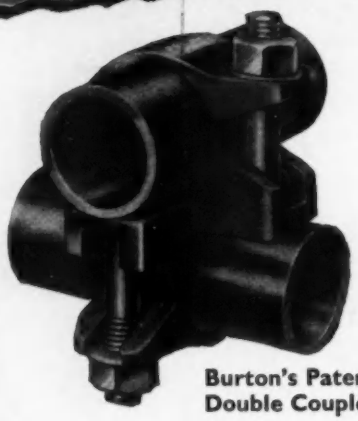
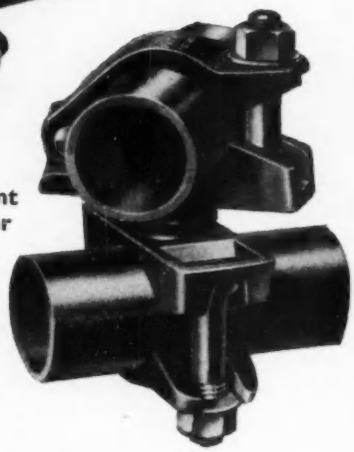


Burton's Patent Double Coupler

Burton's Patent Putlog Coupler



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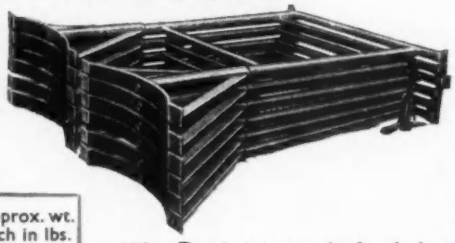

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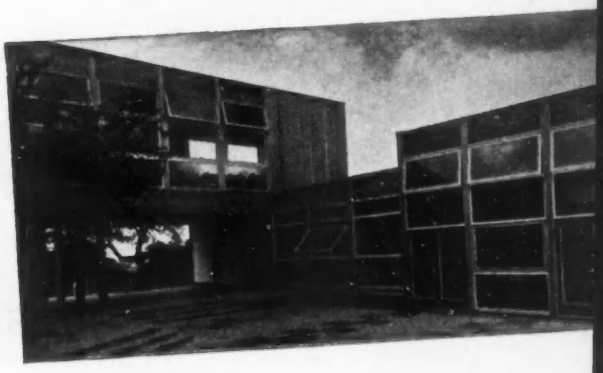

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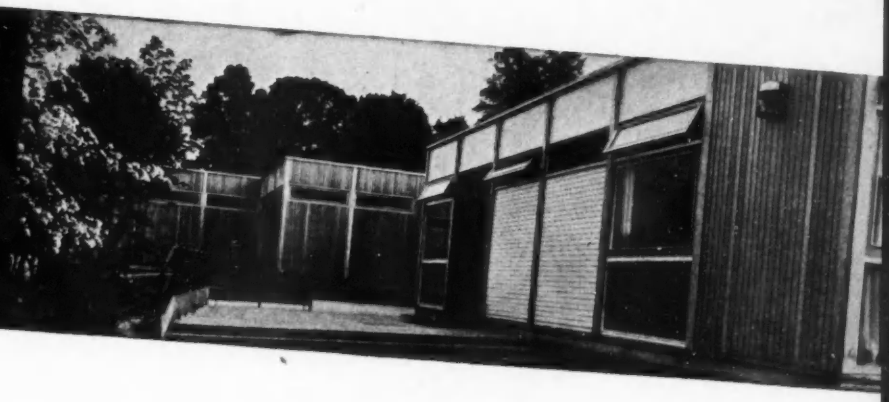

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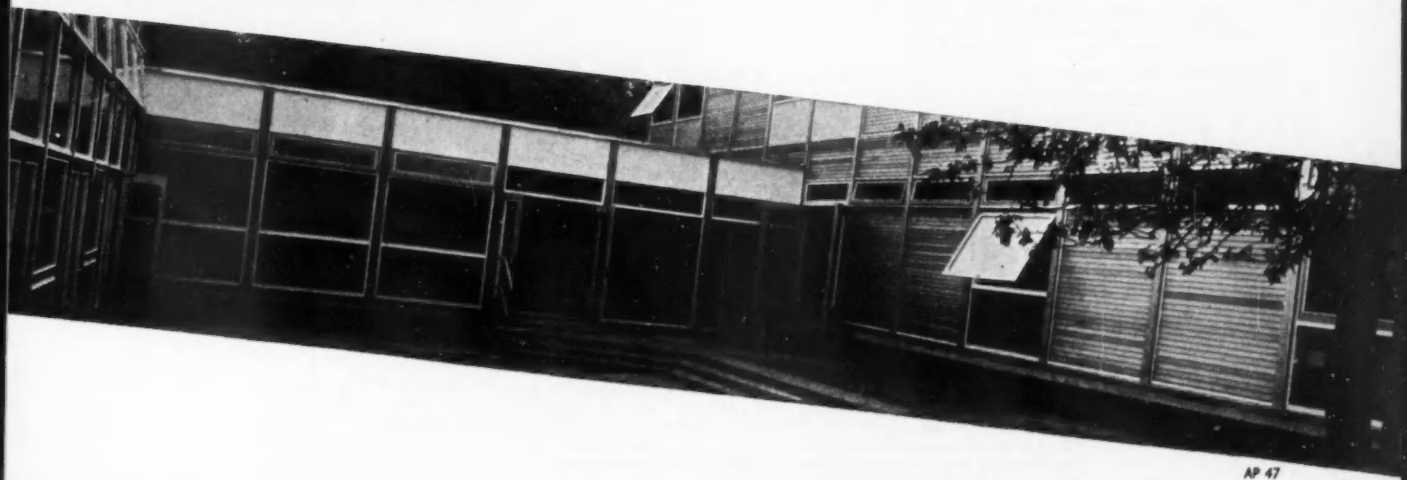

AP 47

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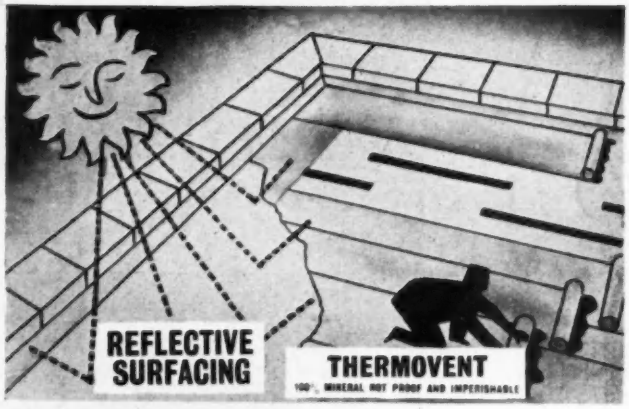

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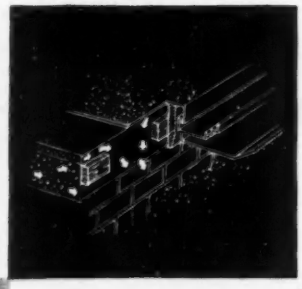

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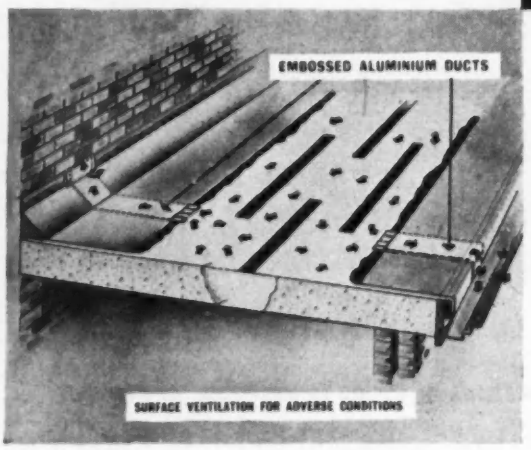

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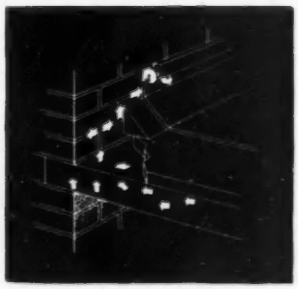

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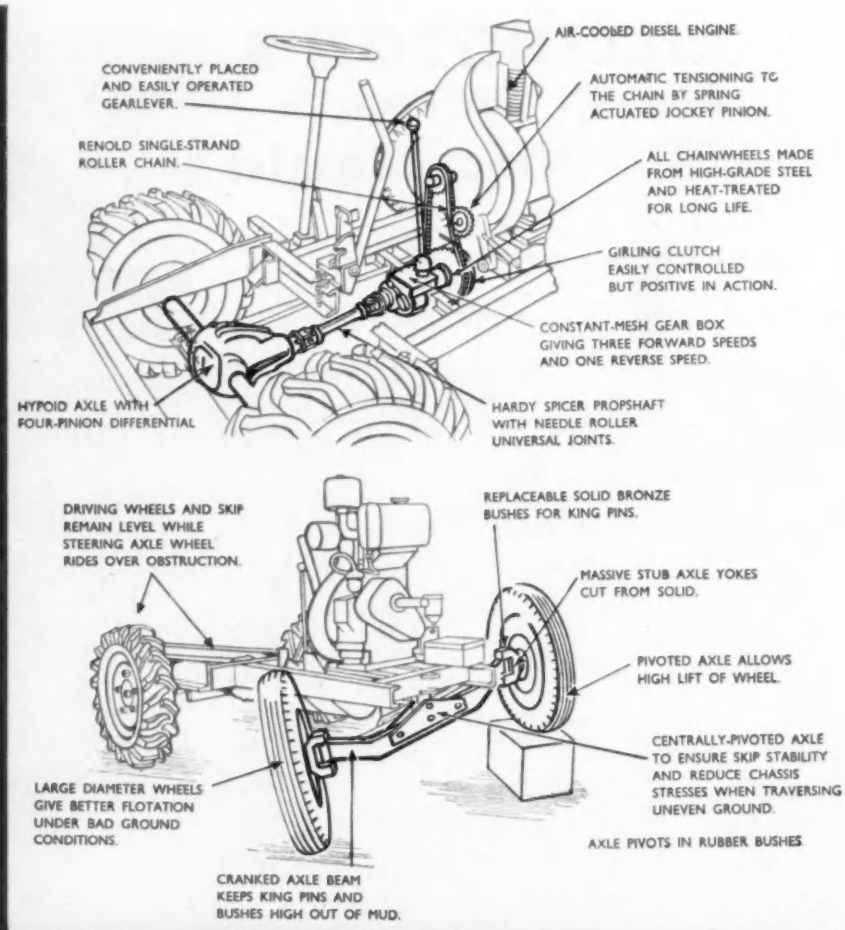

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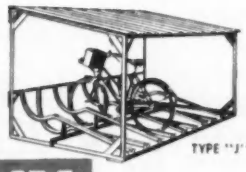
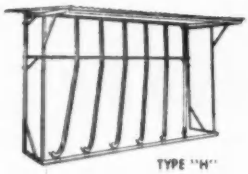


TYPE "J"



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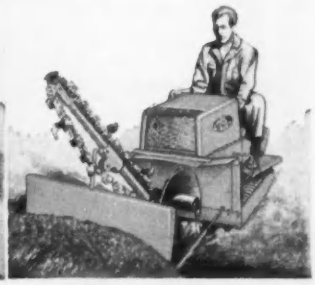

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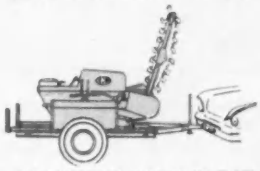

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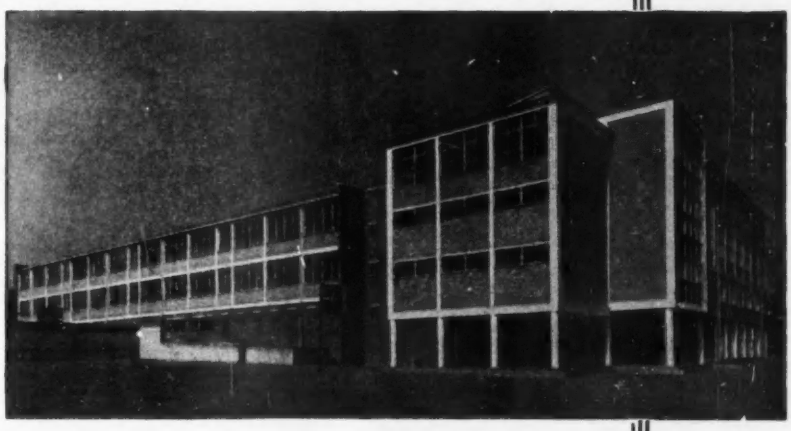

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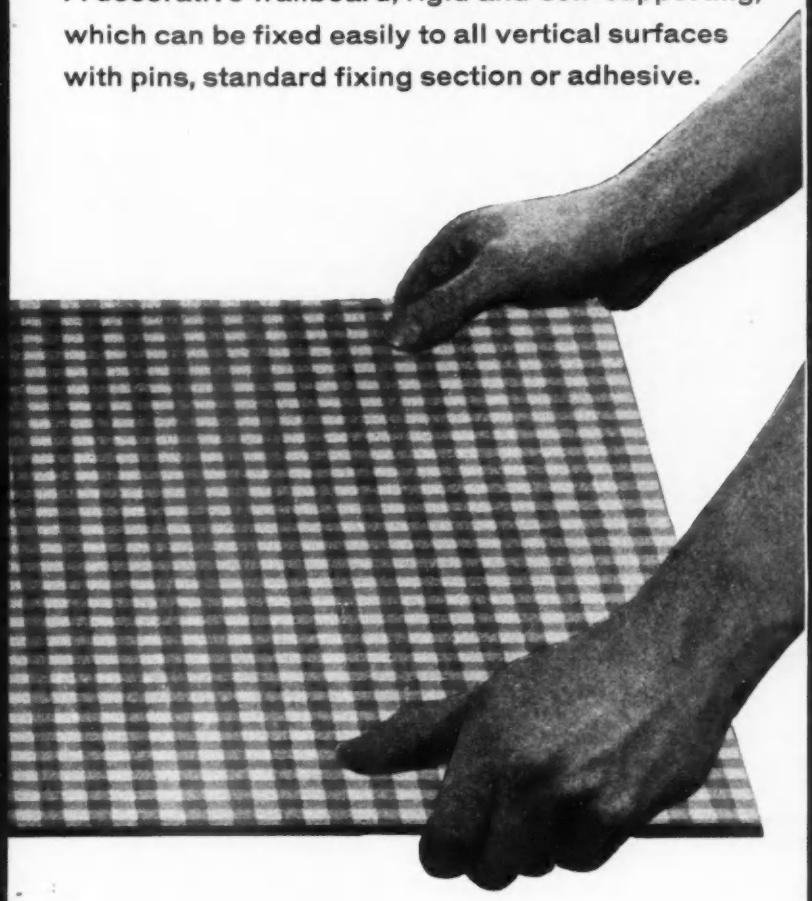

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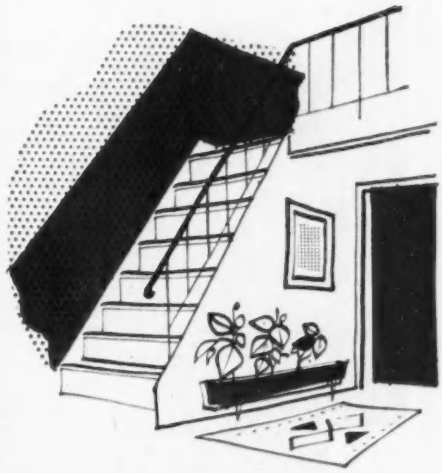

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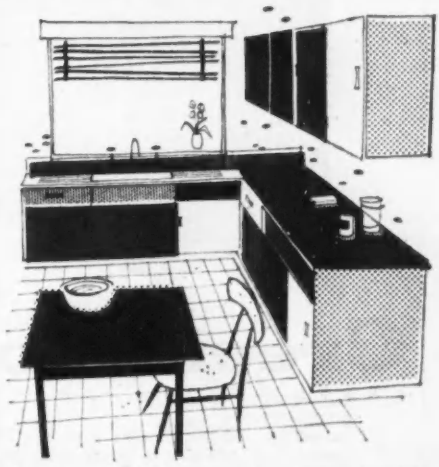

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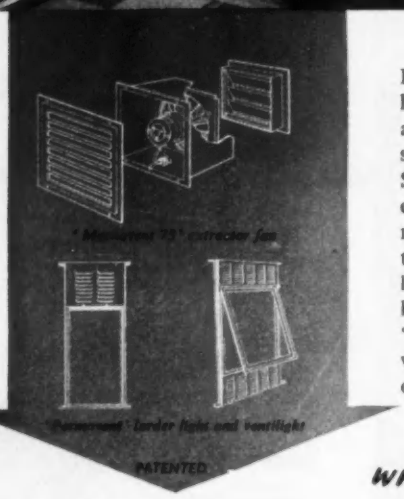

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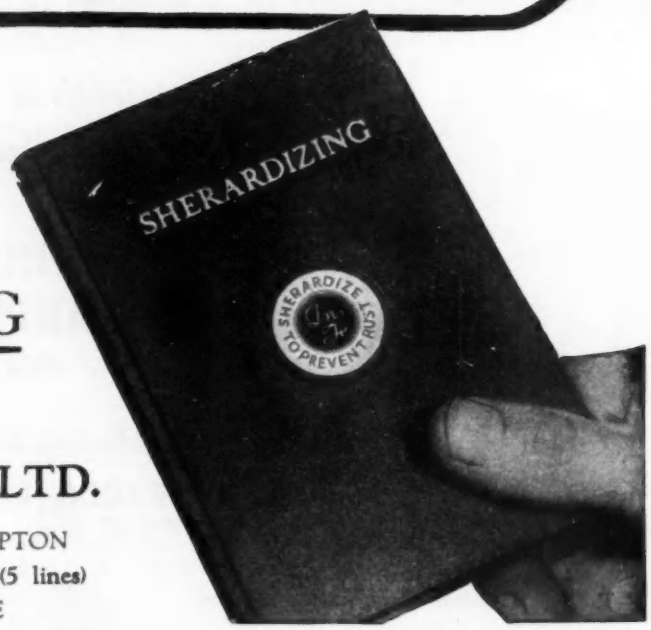

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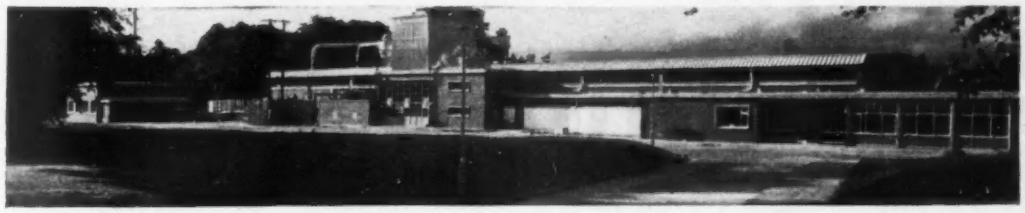

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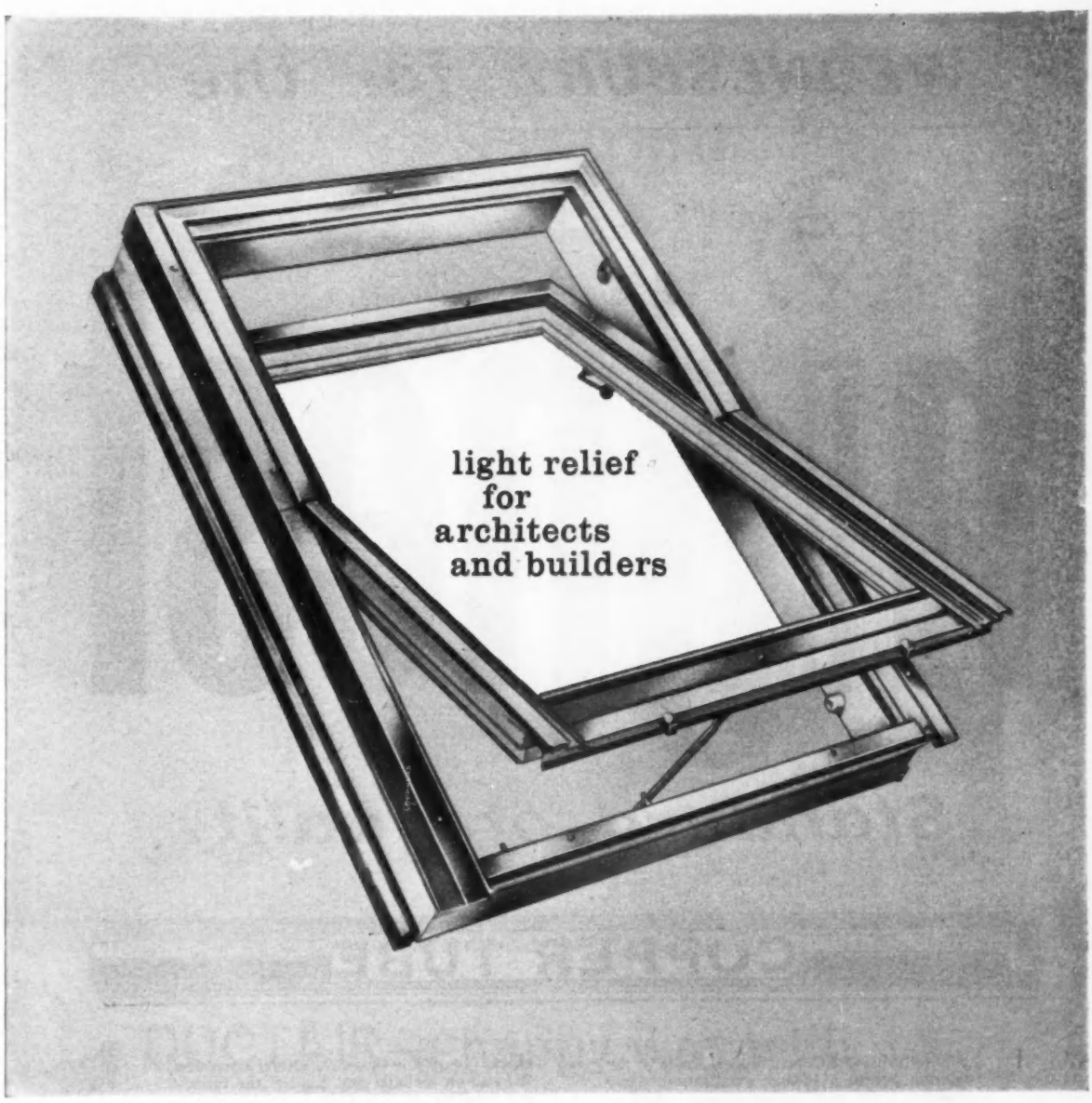

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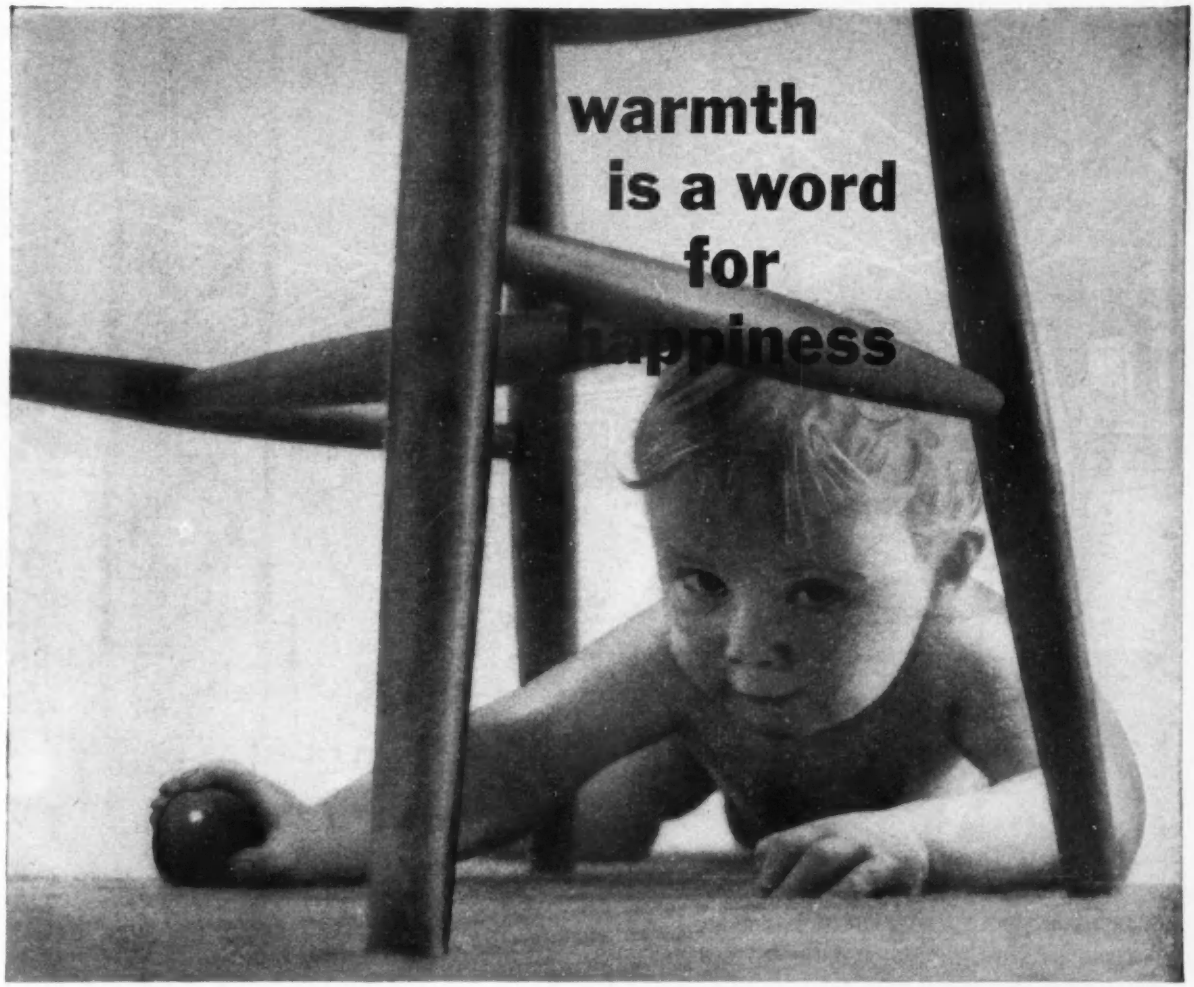

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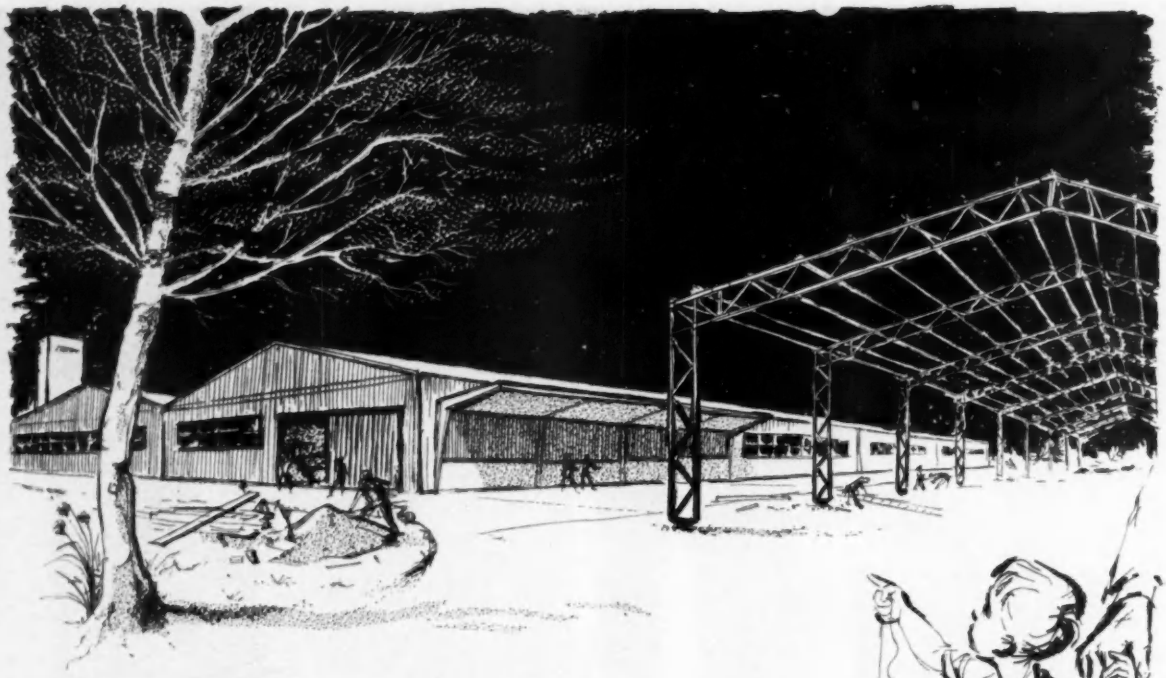

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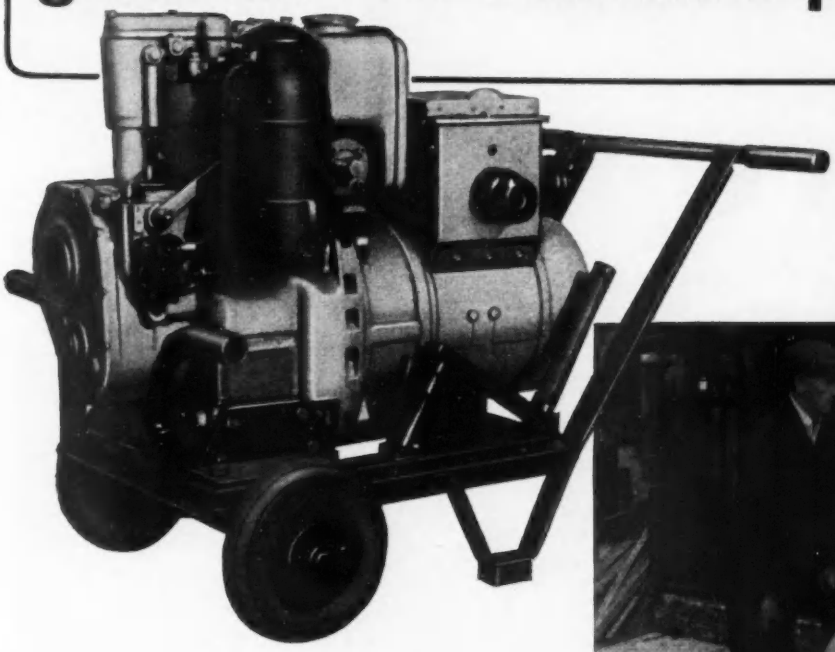

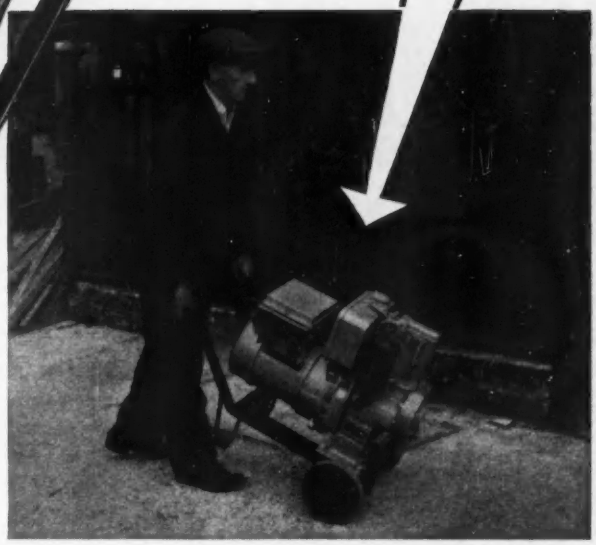

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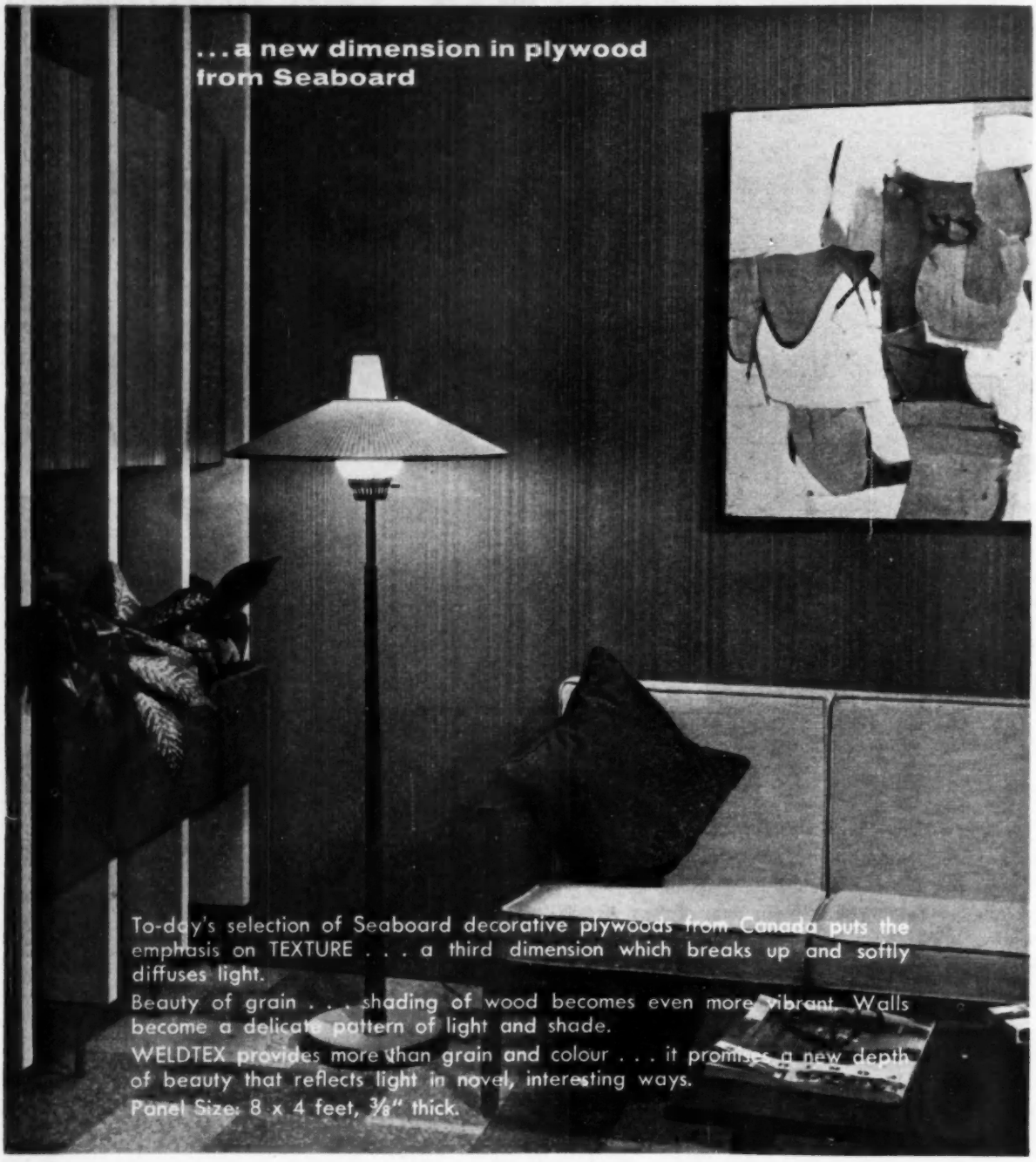

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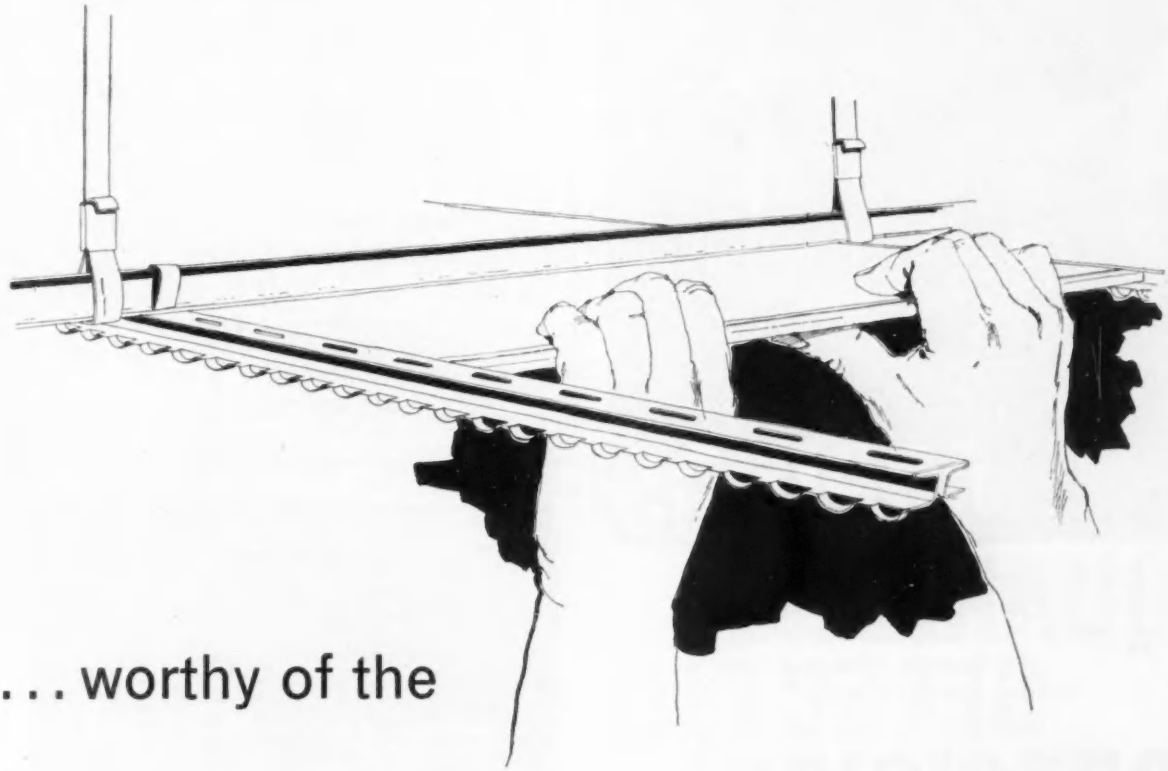

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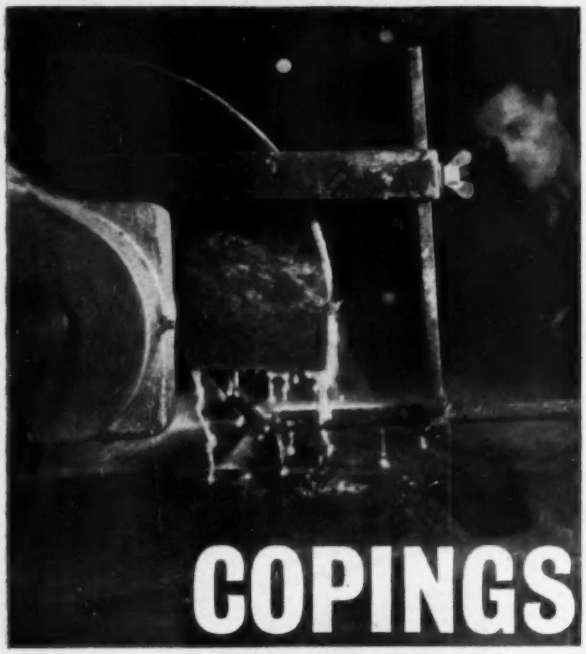

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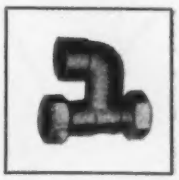

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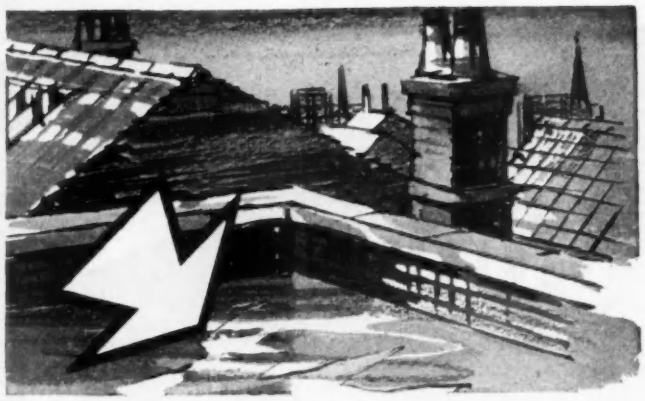

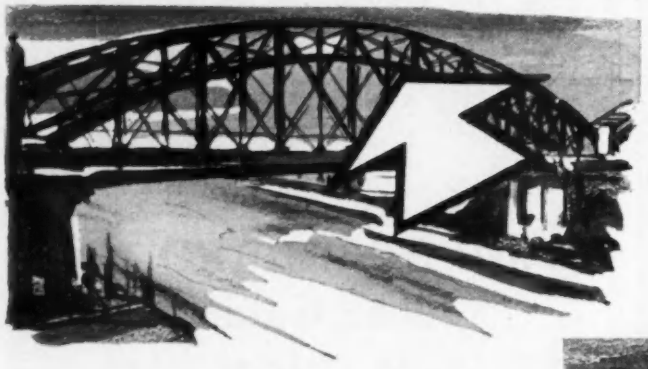

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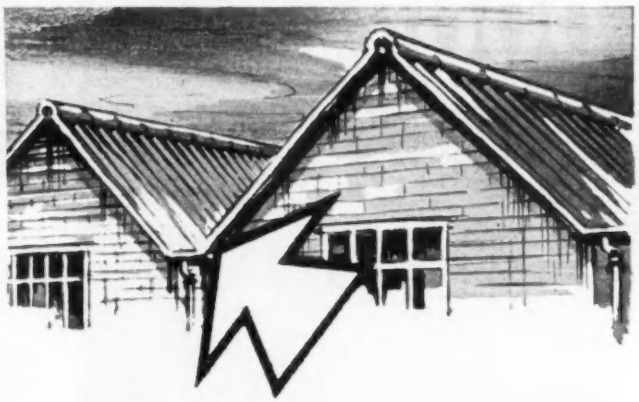

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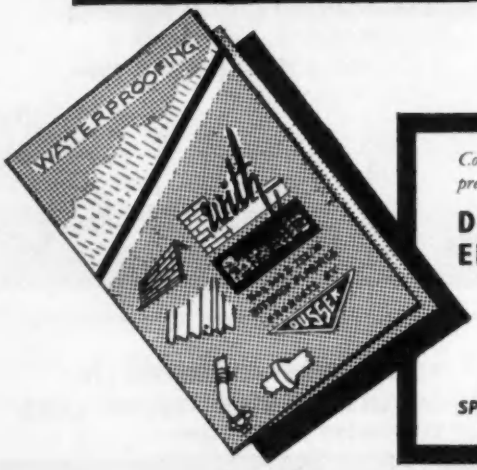

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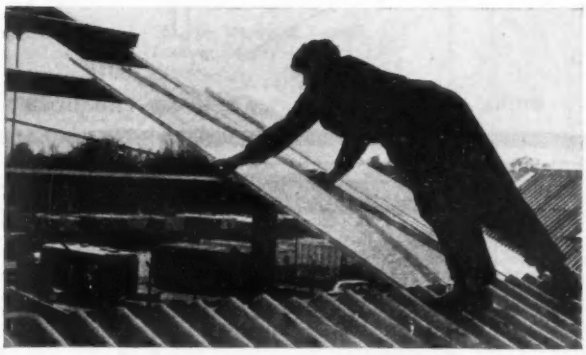

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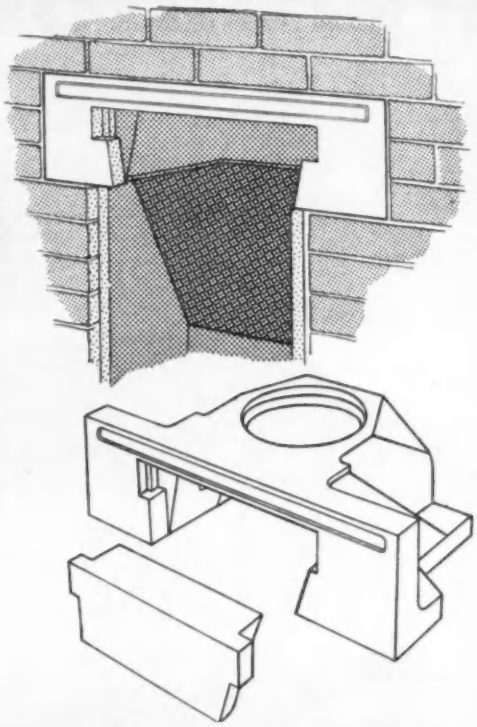

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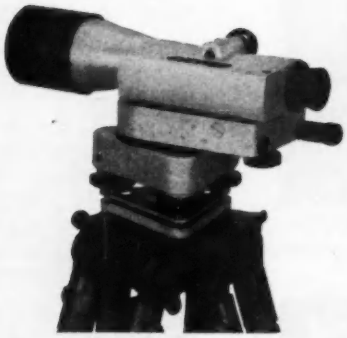

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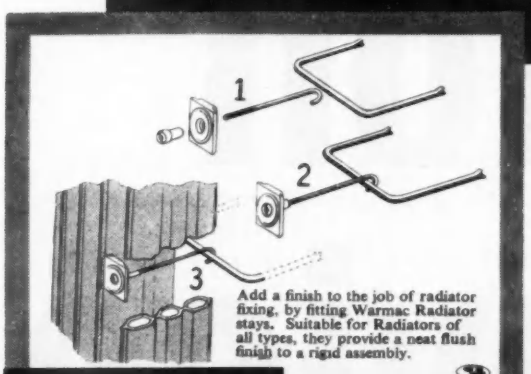

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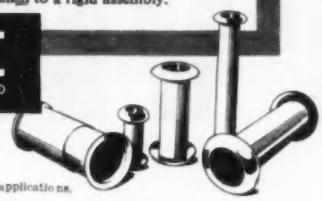

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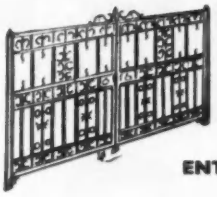

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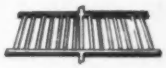

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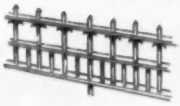

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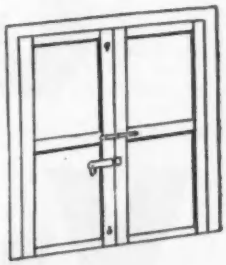

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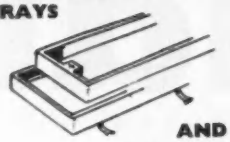

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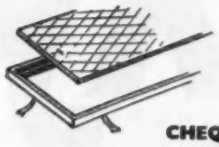

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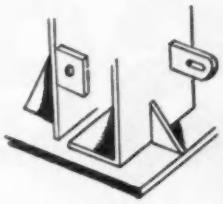

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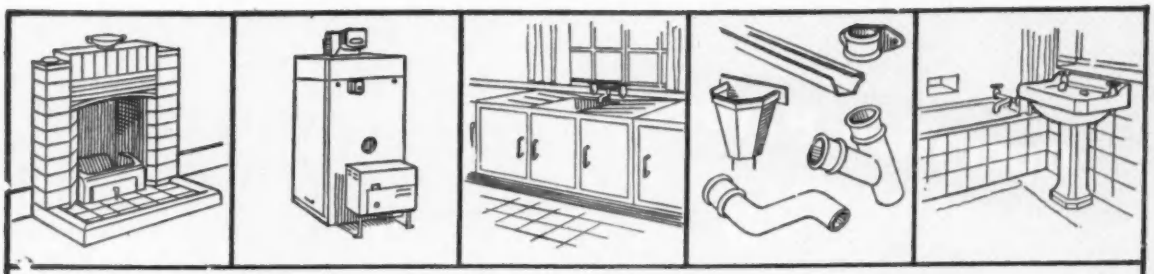

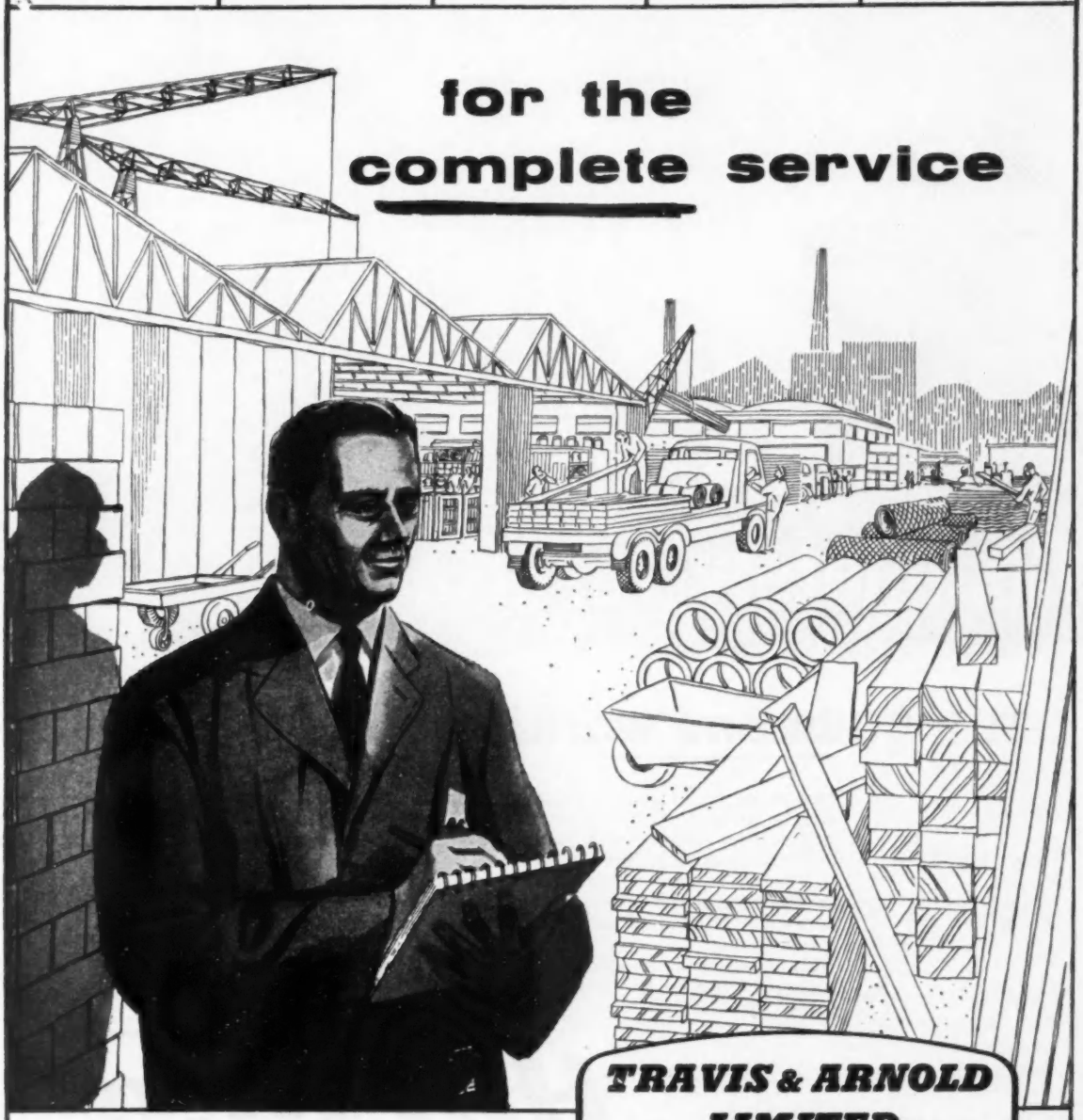

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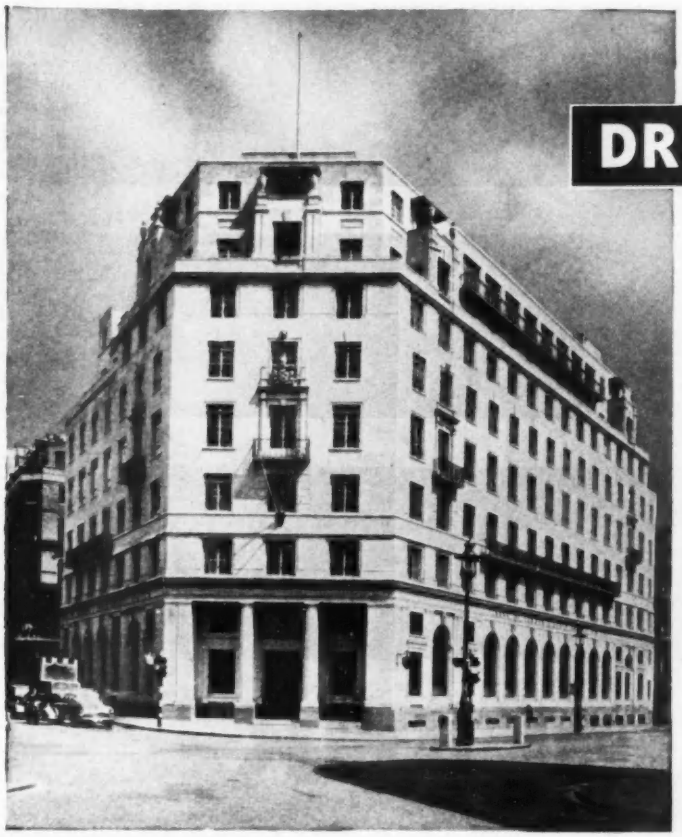

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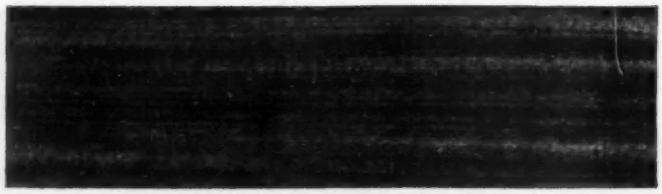

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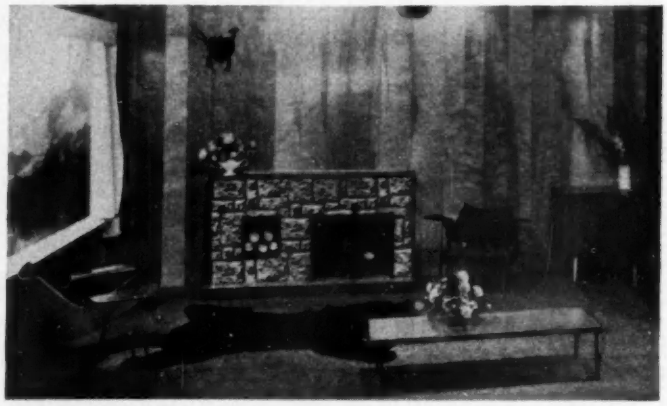

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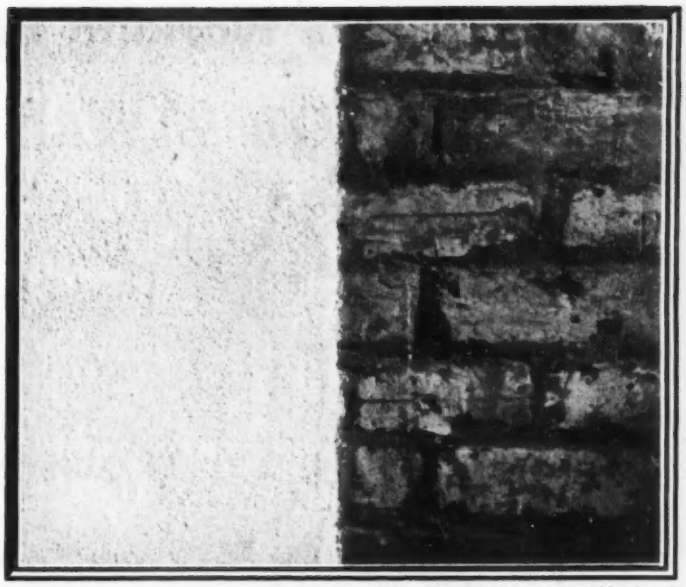

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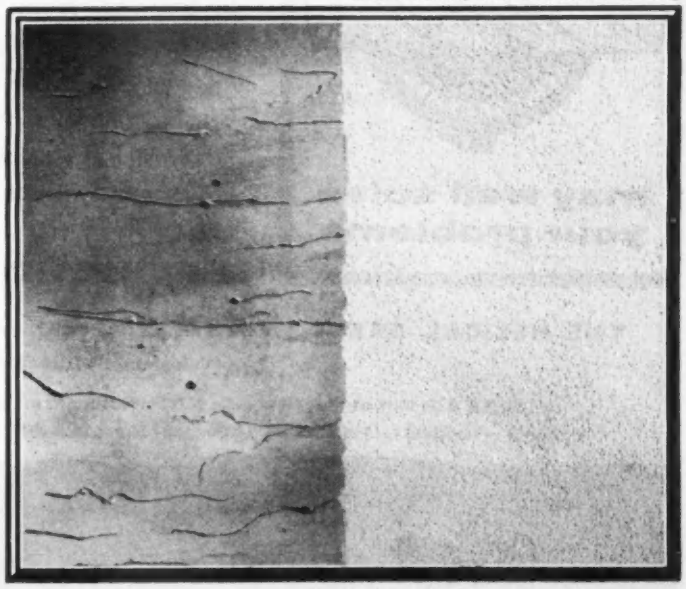

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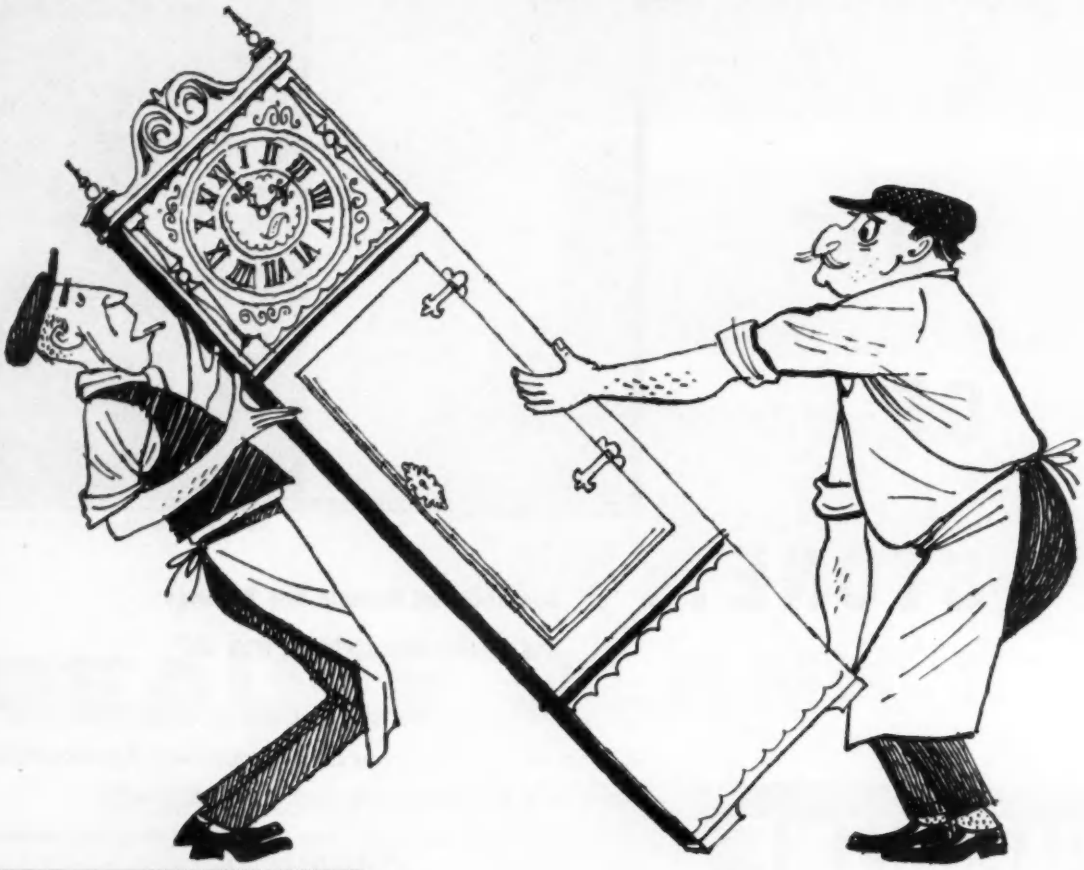

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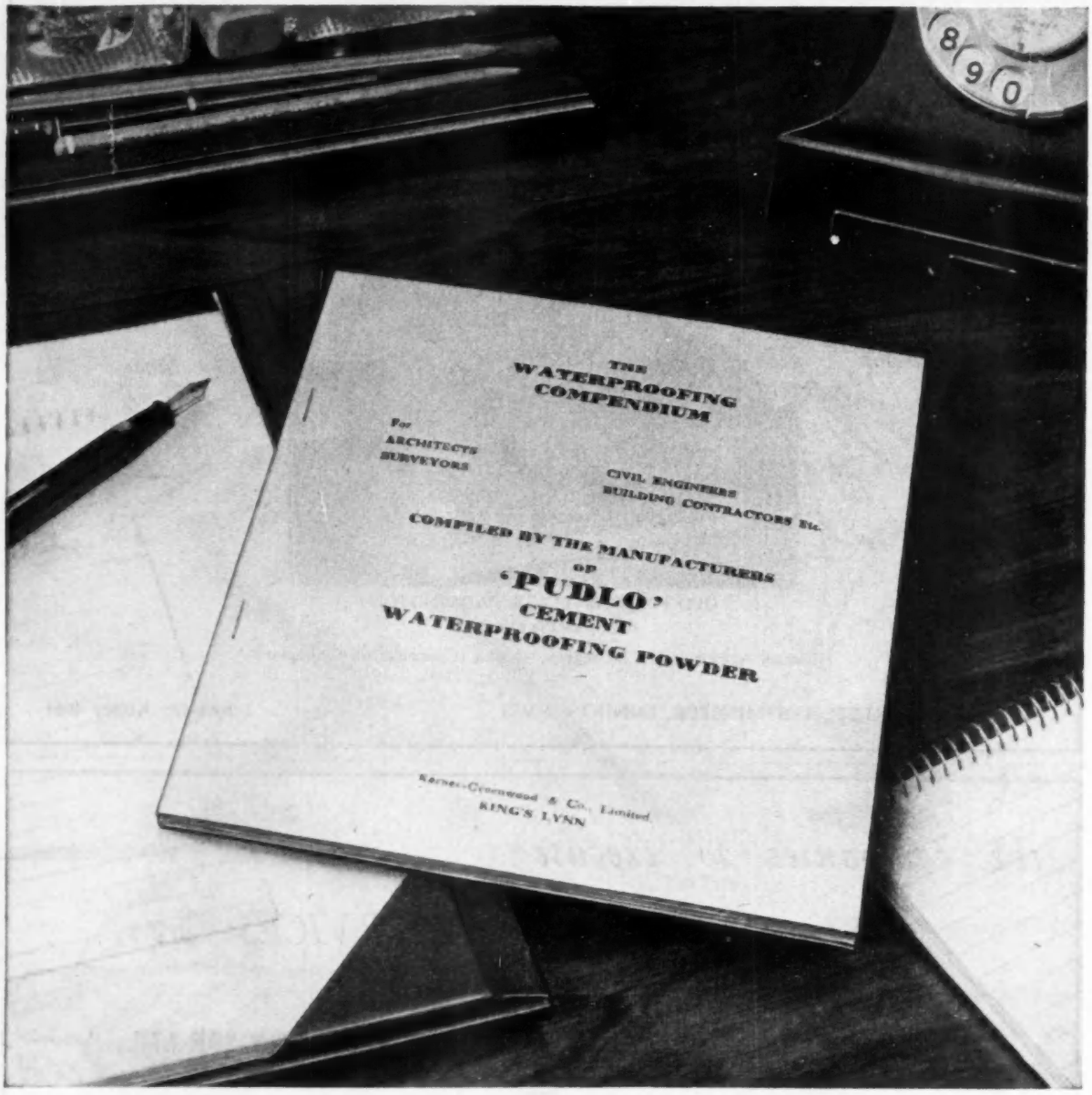

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News Summary

740 The ultimate aim of one society of professional engineers, whose members would be Chartered Engineers, is advanced by Sir Herbert Manzoni, President of the Institution of Civil Engineers, in a circular letter to members on the question of the Institution's amalgamation with the Institute of Municipal Engineers.

746 The Architects Registration Council have ruled that architects advertising for staff may do so in 'displayed form' provided the advertisement appears over a box number and does not mention the name or address of the advertiser.

749 Recent debates and questions in Parliament appear to indicate that MPs are responding to the calls and pressure for good planning and design and that Ministers are heeding the advice of the professional bodies, writes our Parliamentary Correspondent in a 'preview' of the forthcoming session.

750 Sir John Summerson has agreed to act as chairman of the Advisory Committee on Buildings of Special Architectural and Historic Interest during the time that Sir William Holford is president of the RIBA.

751 The Housing Minister has sent the local authorities concerned a map showing the area he has in mind for a New Town for 80,000 at Skelmersdale, Lancs., and has asked for their comments within two months.

751 Opening a new brickworks in Co. Durham, the Minister of Works said that the output of the building industry seemed unlikely to decline in the next 18 months and the problem with which he was the most concerned was the danger of overloading the industry.

754 A progress account is given of the construction of the £40m. Hunterston Nuclear Generating Station that is being built on a site 35 miles south-west of Glasgow.

'Late News' will be found overleaf, and 'News of the Week' on page 743

Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CXCIX. October 21st 1960 No. 6127

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Looking Ahead

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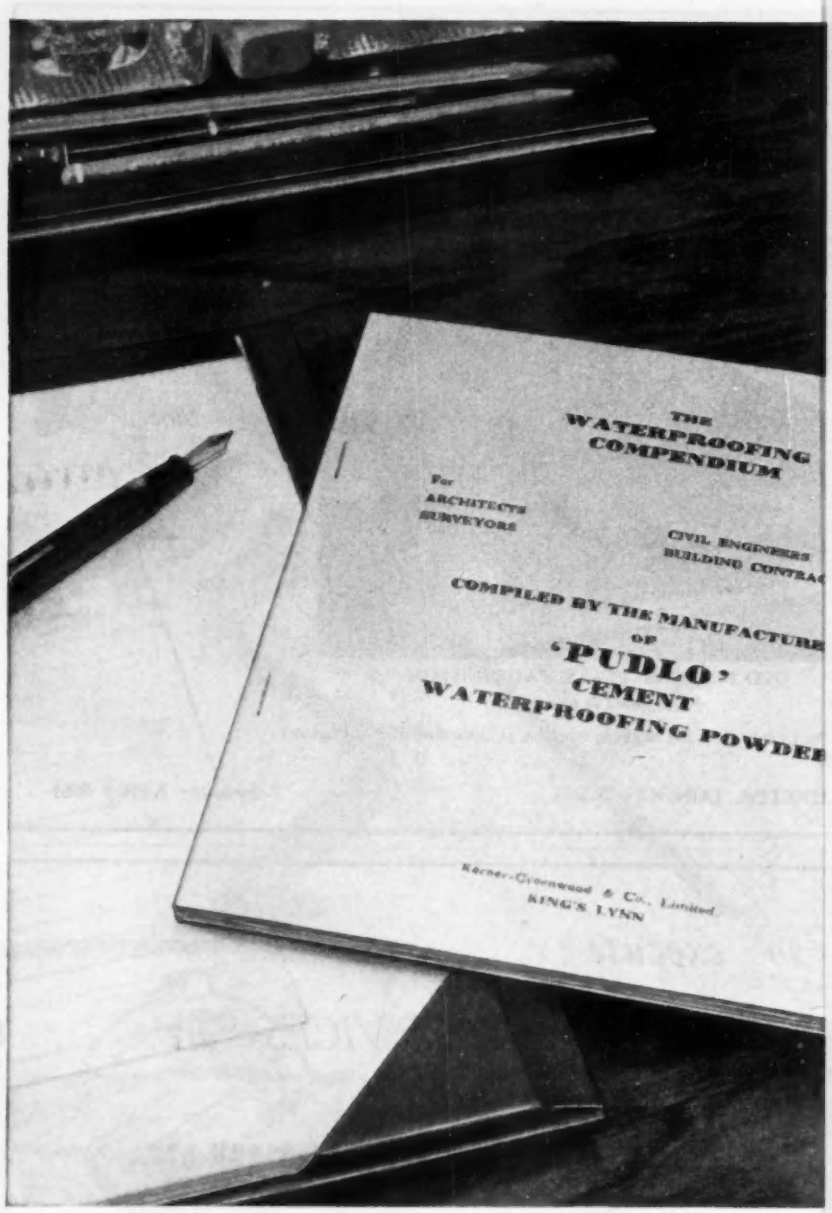
g as a result of the high cost of land and building, the need to vary domestic accommodation by partitioning to suit the changing requirements of the occupants, and so forth. These factors and others must be carefully taken account of by all who wish to provide houses capable of keeping pace with progress, so far as it can be foreseen, and at the same time close touch will need to be kept with all sound developments in building materials and techniques.

As to the variety of homes to be provided, present preferences appear to be, first, a detached house, then a semi-detached, then a house at the end of a terrace, and finally any terrace house rather than a maisonette or a flat, though for a variety of reasons much accommodation must inevitably be provided in the form of flats, and many of our fellow-citizens will have to reconcile themselves to living in them. Incidentally, a good case was made out by Mr. Strachan for the three-storey terrace house with garage and storeroom on the ground floor, a type which, although criticised by some as an undesirable reversion to the Victorian, can make a very convenient dwelling, as was shown in the excellent example of terrace housing at Upper Norwood, illustrated in our issue for October 7.

As to the implications for town planning, the corridor street is clearly obsolete. Stress was laid on the need to segregate pedestrian and vehicular traffic by providing footpath access only to the fronts of the houses and all vehicular access to the rear, where private garages would be provided. This, of course, is not uncommon practice,



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Late News

'Housing Standards' on Television

AN IMPORTANT FEATURE entitled 'Inquiry into Housing Standards' will be broadcast by BBC Television tonight (Friday, October 21). The programme, which will go out at 9.30 p.m. on the National Television Network, will emphasise the value of the inspection and certification service of the National House-Builders Registration Council.

The Builder

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Looking Ahead

PROPHECY, a risky business at the best of times, is particularly so to-day, with 'science' on the march as never before, and he would be rash who attempted to forecast living conditions a hundred years hence. MR. BUCKMINSTER FULLER looks forward confidently to the time when vast cities will shelter safely under his great air-conditioned geodesic domes; while the nuclear physicists, smiling indulgently at such old-fashioned ideas, prepare to control the climate and temperature of the whole globe, thus making sunbathing as customary at the North Pole as on the Riviera.

Setting their sights rather lower, MR. A. L. STRACHAN, a surveyor, and MR. J. M. AUSTIN-SMITH, an architect, in papers read recently before, respectively, the Royal Institution of Chartered Surveyors and the Royal Society of Health (reports begin on page 733) endeavoured to forecast developments in housing, town planning and domestic conditions during the next sixty years on the basis of present trends.

The considerations affecting the future of the home are numerous and complex; they include such factors as the number of married women who go out to work, the great increase in car ownership (a garage for every house is now essential, with recommendation for two cars in better-class property), television, more and more labour-saving domestic equipment, whole-house heating, with nuclear energy for high-density housing (both lecturers seemed to envisage the eventual disappearance of solid-fuel appliances), more economic planning as a result of the high cost of land and building, the need to vary domestic accommodation by partitioning to suit the changing requirements of the occupants, and so forth. These factors and others must be carefully taken account of by all who wish to provide houses capable of keeping pace with progress, so far as it can be foreseen, and at the same time close touch will need to be kept with all sound developments in building materials and techniques.

As to the variety of homes to be provided, present preferences appear to be, first, a detached house, then a semi-detached, then a house at the end of a terrace, and finally any terrace house rather than a maisonette or a flat, though for a variety of reasons much accommodation must inevitably be provided in the form of flats, and many of our fellow-citizens will have to reconcile themselves to living in them. Incidentally, a good case was made out by Mr. Strachan for the three-storey terrace house with garage and storeroom on the ground floor, a type which, although criticised by some as an undesirable reversion to the Victorian, can make a very convenient dwelling, as was shown in the excellent example of terrace housing at Upper Norwood, illustrated in our issue for October 7.

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and is found in good development already.

If there is nothing startling about any of these suggestions, they at least provide a rational basis to work on, and it is along some such lines, no doubt, that progress is likely to be made in the foreseeable future. And though it is right to look ahead intelligently it is also desirable to look back and to take account of the facts that there are still over 739,000 households in this country which have no piped water; over 294,000 without a cooking stove; and over 4¾m. without a bath.

Direct Labour Analysed

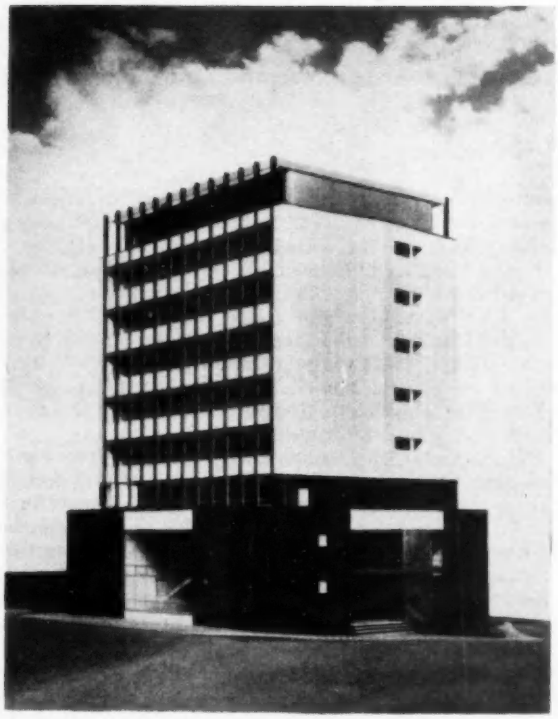
'"THE WARNING FROM MANCHESTER" should be compulsory reading for every City Councillor.' So MR. I. ERNEST JONES concludes his critical analysis of building by direct labour,* a summary of which we published last week. By all accounts, the experience of the citizens and ratepayers of Manchester was unfortunate. 'The deliberate falsification of prime records . . . actions, tantamount to forgery' . . . are, as Ernest Jones points out, strange statements to find in a report presented to a City Council with reference to its own staff. Moreover, the extra costs involved seem to have been quite prohibitive. 'A total of 183 tenders were received for painting 14 Manchester schools, but the direct works department, which tendered for each one, quoted the lowest figure in one case only. If all the work had been given to private contractors the cost would have been £9,940. The work was done by the direct works department for £14,900, exactly 50 per cent more. Despite this experience, the City Council decided to approve a recommendation that another £30,000 worth of school painting should be given to the department.' The Appendix shows that other authorities have experienced difficulties over their direct labour departments.

This, in itself, is pretty conclusive evidence against the too widespread adoption of the direct labour principle. But, with characteristic thoroughness, the author follows it up by listing the faults peculiar to it—the lack of any form of legal agreement relating to the execution of the work, and the consequent absence of any real control over its cost; the ineffectiveness in practice of the safeguards provided by Government controls and legislation; the lack of suitable administrative and supervisory staff; the absence of any compelling incentive to economy and efficiency in construction; and so on. He might also have added that the 1954 Census of Production for building and contracting reveals that net output per person employed by the larger building and contracting firms amounted to over £654 per annum compared with £485 per direct employee of Government Departments and £471 per direct employee of the larger local authorities. To be fair, it must be mentioned that a large proportion of direct labour work is concerned with maintenance and repairs. But the inevitable conclusion is that the system of contracting with reputable building firms provides in general a more business-like method of carrying out building work. And, let us be frank, it lessens the danger that the industry may one day be nationalised, by doors back or front.

Even so, a case can be made out for direct labour in certain circumstances. It is not a valid argument, as Ernest Jones himself acknowledges, that every direct labour department is necessarily corrupt or inefficient. To abrogate the principle altogether would amount to an attack on the whole concept of freedom as applied to employer/employee relations. Direct building labour is not confined to public authorities; a number of major industrial concerns employ building workers on their staffs. This, and the fact that the number of building operatives employed directly by public authorities has, in fact, increased during a Conservative administration, is possibly an indication that the system is not wholly bad.

*Building by Direct Labour: a critical analysis, by I. Ernest Jones, MA, BSc, Federated Employers Press, Ltd., 6s. net.

The question is, therefore, when and how direct labour organisations should operate. Primarily, it seems, they should limit themselves to jobs like day-to-day maintenance and repairs. It is the intrusion of direct labour departments into the spheres of new construction and major alterations that really gives concern. If all local authorities could be persuaded to follow the advice of successive governments, and of the Working Party on Building, and only allow direct labour tendering in competition with contractors at the same time and under identical conditions, all might be well, even here. Neither party can complain if both are subject to this acid test: the strength of the industry's defence would then depend entirely on its own efficiency. But, in practice, as Ernest Jones evinces, local councils rarely abide by these 'rules.' An official re-statement might, therefore, do a power of good. Within definitely prescribed limits, direct labour departments may fulfil a useful function. The danger arises when, through the operation of Parkinson's law or otherwise, they extend their activities, unhindered and unchecked, into spheres for which they are neither properly equipped nor staffed. If 'The Warning from Manchester' stimulates thinking along these lines, even that unfortunate experience may yet be proved worthwhile.



Model of the new nine-storey Bakers' Hall to be constructed in Harp-lane, EC4, by Wates Ltd. It is the fourth hall to stand on this site; the first was erected in 1506, the second in 1673, and the third, which was blitzed in 1940, in 1719. The architects for the building are Trehearne & Norman, Preston & Partners, and for the Worshipful Company's Hall Mr. W. Newcome Wright, JP, LRIBA, FRICS

Notes of the Week

Complacency at Scarborough; Success of 'Architecture' Week'; IQS 21st Party; Mr. Dawbarn, his Fist; CPRE Activities

WHEN a prop of Conservatism such as the 'Daily Telegraph' takes the Conservative Party to task for complacency in the matter of the Scarborough conference, the ordinary man can safely assume that this annual rally and Guy Fawkes night had little in common. The general air of complacency that appears to have surrounded the conference certainly enveloped Mr. Henry Brooke who—replying to a debate based on a motion calling for such revision of the planning acts as to make essential, one would have thought, a complete review of land needs over the next twenty years—could do little more than to say that he was in the position of replying to a motion urging him to do what had already been done.

All who are not obsessed with materialism must applaud the Minister for his determination to preserve the green belts of England from building encroachment, but they find somewhat Canute-like the fact that he throws back on local authorities the main duty 'of seeing that adequate land is available elsewhere. . . . I shall see that local authorities are allocated enough land amply to meet requirements, though I cannot promise that it will be in precisely those places where people would most like to live. They may be just those places we ought to keep free from building.' Where is this land? House-builders would like to know.

* * *

THE CLEAREST RAY OF HOPE at Scarborough was a hint from the Minister that the country would have to accept higher densities in future in the suburbs and the towns within range of the big cities, and that this would involve building tall flats in places. But where? The two-storeyed houses of which the Minister spoke are mostly in the twilight areas of the cities, and plans for comprehensive re-development (such as the LCC, among other authorities, are engaging in) involve rehousing of displaced tenants. Since small-scale works are costly, some form of co-partnership between housing authorities and private builders is called for. This is just the kind of question that an inquiry into land use could pose and perhaps answer. In refusing this reasonable demand, which has the support of every house-builder, Mr. Brooke is exacerbating a situation which produces time-wasting, costly appeals which increasingly end, in current experience, in his overruling decisions by his inspectors aimed at preventing the nibbling at the green belts. It is time that ad hoc rulings gave way to a concerted plan based on a full-scale review.

Success of 'Architecture Week'

ANALYSIS of 'Architecture Week,' held in the areas of the Allied Societies during the time of the Manchester Conference in June, shows that considerable success has attended this enterprising effort to bring the public in closer touch with the architect and his work. Forty different kinds of sites were obtained for the displays, though some societies report difficulty in getting suitable accommodation for what shortsightedly was adjudged by some authorities as being primarily an advertisement for the profession.

Most societies were able to arrange well-planned opening ceremonies for their exhibitions, and the local Press in general lent adequate support, some papers running special supplements. Several regional broadcasts were arranged during the week and there have been contacts on a permanent basis with newspapers which should exert a continuing influence for good. We shall hope that this means of getting the architect and his work across to lay people will continue; there seem grounds to believe that a period longer than a week could only be advantageous.

ABS ANNUAL BALL
Grosvenor House
Wednesday, December 14, 1960
Tickets now on sale from
Hon. Organising Secretary,
ABS Ball, 66 Portland-place, W1.

IQS 21st Party

THE INSTITUTE OF QUANTITY SURVEYORS should feel well pleased with the dinner and dance arranged for Friday last to celebrate the 21st year of its foundation. A record number of members and guests gathered at the Trocadero restaurant under the genial chairmanship of the President, Mr. J. Lester, who was able to announce during the evening that the Board of Trade has now allowed the Institute to omit the word 'Limited' from its title. The Institute sets an example in the brevity of speeches that could well be followed at mixed gatherings, and Mr. Lester's own contribution was a model of its kind, witty and to the point. Dancing and an attractive display of Ukrainian folk dances continued during the evening to the evident enjoyment of the company. We wish the Institute well on its way to a jubilee.

Mr. Dawbarn, His Fist

THOSE that have tried their hand at signing individual circular letters will best appreciate the labour involved in writing 17,000 signatures. This is what Mr. Graham Dawbarn, as hon. treasurer of the Architects' Benevolent Society, has recently done as his contribution to a drive by the Society for new subscribers. At present only about 1,500 members of the 20,000 within the RIBA support this well-run charity, and it would be pleasant to record that Mr. Dawbarn's tremendous effort had brought an immediate and overwhelming response. In fact, at present, of 9,000 letters that have gone out, 700 replies have been received. If you are one who has not yet got round to returning the postcard enclosed with the appeal, then do please take immediate action. The Society's dependants need your help.

Activities of the CPRE

WE ARE all vaguely aware of the ceaseless threats to the beauty of the countryside, but it is not, perhaps, till we take up the annual reports of the CPRE and its branches that we realise the full nature and extent of these. The reports for 1959-60 of the main body and of the Lancashire branch, just issued, contain particulars of scores of cases of intended depredation and of the action which is being or has been taken to frustrate them. Both reports are illustrated and show something of what needs to be preserved and of what, alas, has already been desecrated. All who are interested in and would like to support the good work of the CPRE should get copies of these reports, which are obtainable, respectively, from 4, Hobart-place, London, SW1, and the County Hall, Preston.

Poet's Corner

DISPUTATION is rife as to who should lead the building team, especially in the redevelopment of urban areas.

Who does the planning?
'I,' said the planner,
'I'm trained to the manner,
I do the planning.'

Who plans the buildings?
'I,' said the architect,
'For function and full effect
I plan the buildings.'

Who makes them safe?
'I,' said the engineer,
'Let's get this matter clear,
I make them safe.'

Who puts them up?
'I,' said the builder,
Though there's much to bewilder,
I put them up.'

Who finds the money?
'I,' said the financier,
'Could anything be "chancier"?
I find the money.'

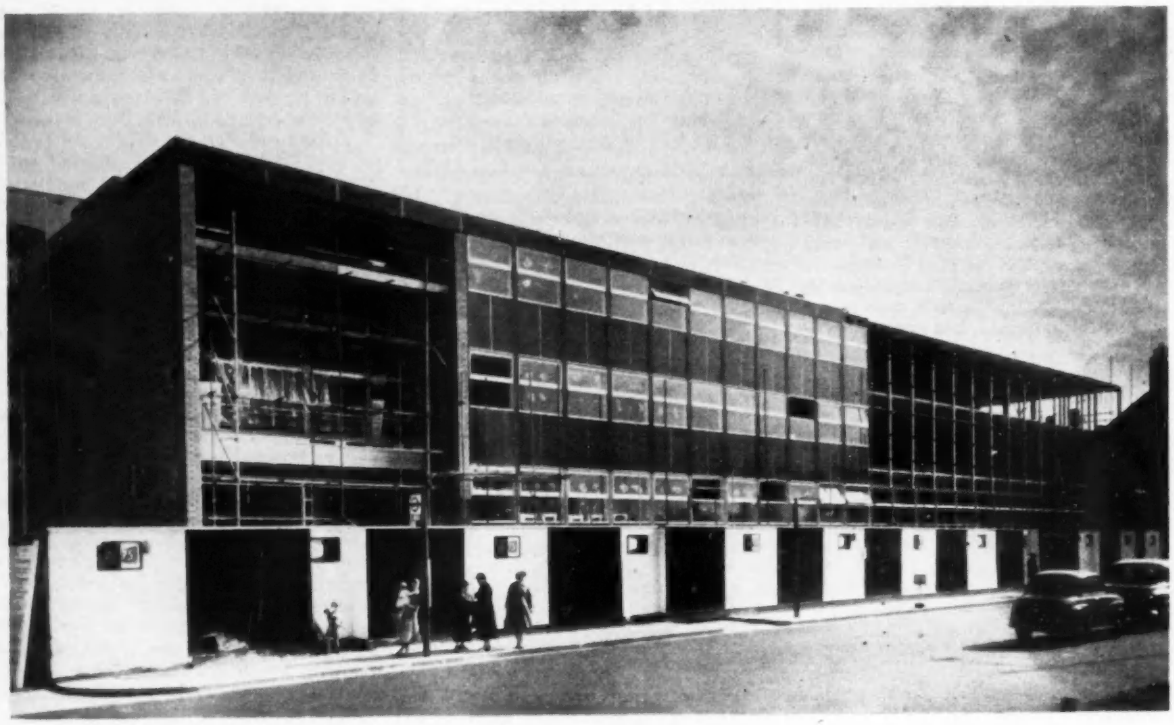
Who leads the team?
'I,' they all cried
'Let the rest stand aside,
I lead the team.'

And the onlooker said, 'Let the discord abate,
Don't you think 'twould be better to co-operate?
Don't you think 'twould be better to co-operate?'

ANON.

LCC Office Extension

HUBERT BENNETT, FRIBA, architect to the LCC
JENKINS & POTTER, consulting engineers
A. H. ANDERSON LTD., A75 structural system



progress picture showing the light steel structure and curtain wall

LONDON COUNTY COUNCIL, in January of this year, were faced with a problem of securing 32,000 sq. ft. of additional office accommodation before the end of 1960. A site was available in Addington-street and the General Division of the LCC's Superintending Architect prepared preliminary schemes.

Negotiations with A. H. Anderson Ltd. commenced on January 27, to produce a fully detailed scheme for a 4-storey building based on their patent structural system, A75. The contract was awarded on March 17 on the basis of a fixed lump sum tender, demolitions commenced at once and on April 24 piling operations were begun. On May 25 erection of the superstructure commenced, and by October 3 two-fifths of the building were completed for occupation. The entire project is due for completion in November.

A75, which is based on a 6 ft. 3 in. module, was developed originally as an all timber structure for single and two-storey buildings. The more recent development, at Addington-street, utilises light steel structural members with precast concrete floors and roof, and extends the system to 5 storeys. Consultants associated with A. H. Anderson Limited for the development of A75 in its original timber form, and which continues to be applied to projects throughout the country, were Farmer & Dark, F/FRIBA. The Company's consulting engineers, Messrs. Jenkins & Potter, were concerned with the more recent development.

The A75 steel frame is to BS 449 and 1775 and Code of Practice CP 3 (Chapter 5). Made-up boxed stanchions of 2/3½ in. × 3½ in. × ⅜ in. MS are angle welded together. Main supports for the panels are provided in the form of 4 in × 3½ in. × ¼ in. angle welded to the face of stanchions.

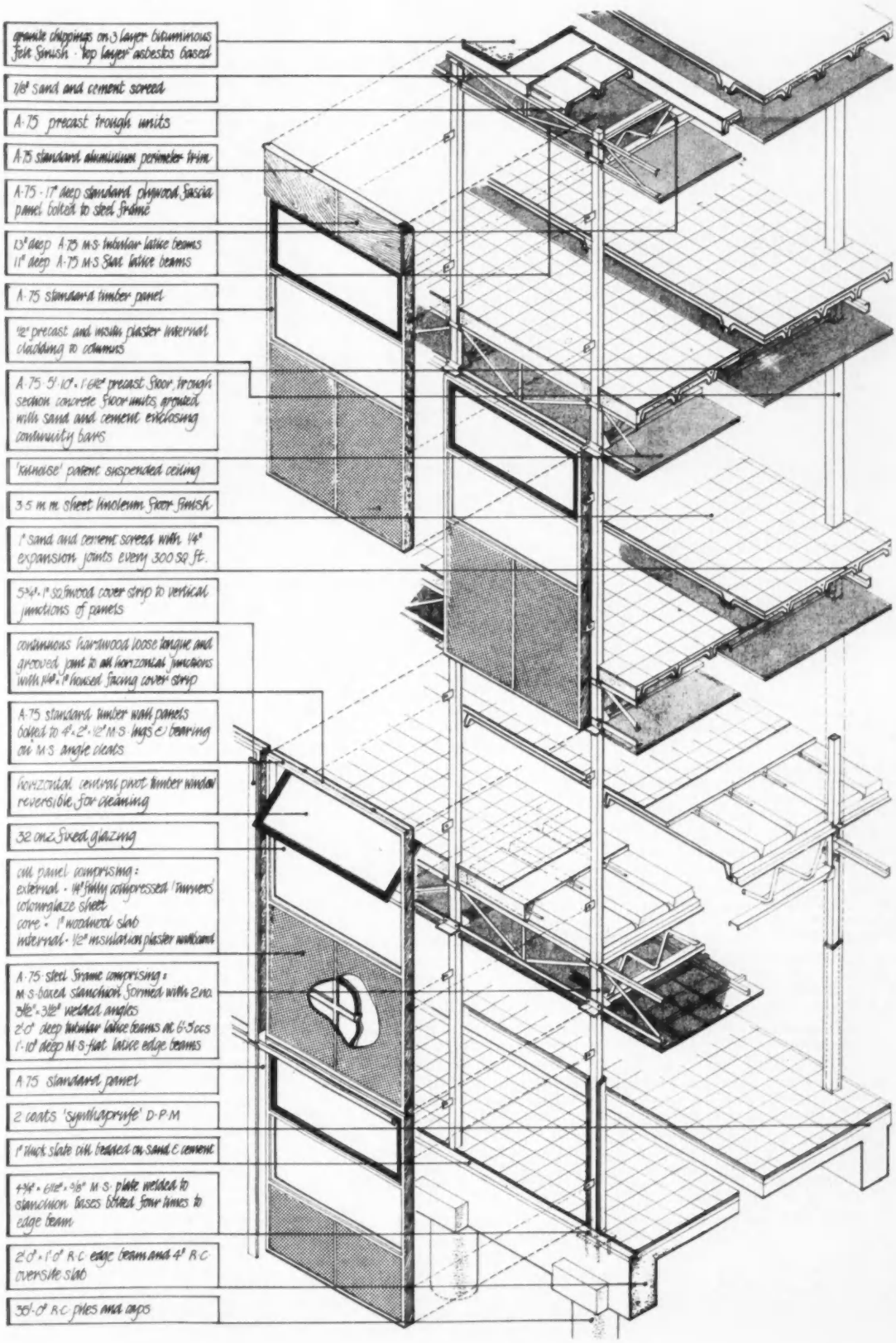
Main floor beams are tube latticed 27¼ in. deep, maximum spans approximately 18 ft. 9 in. fixed at 6 ft. 3 in. centres. Edge beams flat latticed 21¼ in. deep occur throughout the perimeter of the building at first-, second- and third-floor levels. Roof beams are tube latticed 16 in. deep at 6 ft. 3 in. centres. Edge beams at roof slab level are as for floor edge beams but 10¼ in. deep.

All floors except ground are formed by precast concrete trough section floor units, size approximately 5 ft. 10 in. × 1 ft. 6½ in. × 5 in., with light continuity bars laid between them, grouted in and screeded 1 in. thickness for linoleum except areas left to receive terrazzo.

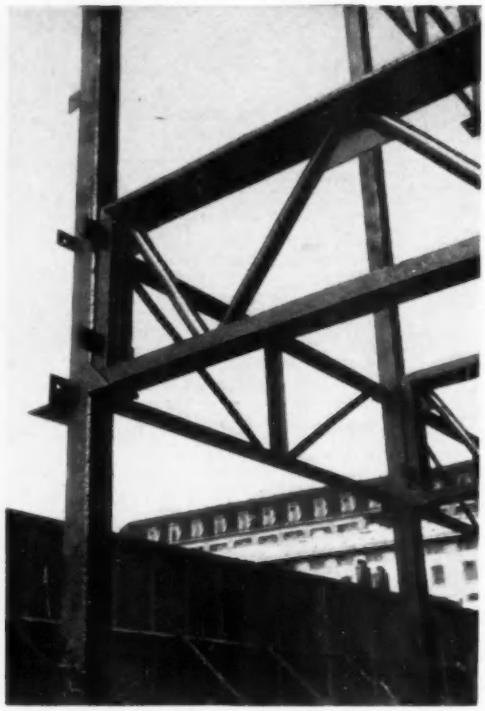
Roofing is three layers bituminous felt with ½ in. granite chippings and edged with A75 aluminium perimeter trim above continuous plywood fascia.

Steel columns which are not fully enclosed by brickwork are protected by precast and 'in situ' plaster. Those on perimeter of building faced Asbestolux and all designed to achieve one hour fire protection. Steelwork within floors and roof is protected by suspended ceiling of incombustible material.

A75 curtain walls, in this case, are timber framed and fully central pivoting throughout to aid external cleaning. Panel infilling externally is ¼ in. Turnall 'Poilite' asbestos cement fully compressed sheets finished blue colourglaze. Internally, ½ in. thick Paramount insulating plaster wall board. 1 in. thickness wood wool is sandwiched between inner and outer faces.


granite chippings on 3 layer bituminous felt finish - top layer asbestos based
1/8" sand and cement screed
A·75 precast trough units
A·75 standard aluminium perimeter trim
A·75 - 17" deep standard plywood fascia panel bolted to steel frame
13" deep A·75 M·S tubular lattice beams
11" deep A·75 M·S flat lattice beams
A·75 standard timber panel
1/2" precast and insulin plaster internal cladding to columns
A·75 5'-10" × 1'-6½" precast floor trough section concrete floor units grouted with sand and cement enclosing continuity bars
'Rainaise' patent suspended ceiling
3·5 m.m. sheet linoleum floor finish
1" sand and cement screed with 1/4" expansion joints every 300 sq ft.
5"×1"-1" sq hwood cover strip to vertical junctions of panels
continuous hardwood loose tongue and grooved joint to all horizontal junctions with 1½"×1" housed facing cover strip
A·75 standard timber wall panels bolted to 4"×2"×1/2" M·S lugs c/ bearing on M·S angle seats
horizontal central pivot timber window reversible for cleaning
32 oz. fixed glazing
cill panel comprising:
external - 1/4" fully compressed 'Tanners' colourglaze sheet
core - 1" woodwool slab
internal - 1/2" insulation plaster wallboard
A·75 steel frame comprising:
M·S boxed stanchion formed with 2 no. 3/8"×3/8" welded angles
2'-0" deep tubular lattice beams at 6'-3 ocs
1'-10" deep M·S flat lattice edge beams
A·75 standard panel
2 coats 'synthaprufe' D·P·M
1" thick slate cill bedded on sand & cement
4 3/4" × 6 1/2" × 3/8" M·S plate welded to stanchion bases bolted four times to edge beam
2'-0" × 1'-0" R·C edge beam and 4" R·C oversite slab
36'-0" R·C piles and caps

concrete floor beams and lattice beams



box columns and perimeter beams

LCC Office Extension

TOTAL FLOOR AREA ... ... 32,732 sq. ft.				
NET TENDER ... ... £87,850 GROSS TENDER ...			... ...	£118,024
			Sq. ft. cost s.	d.	Item cost £
NET COSTS:					
Part preliminaries, insurances, overheads and profits			6	11½	11,400
Substructure, including piling and oversite concrete			4	5⅞	7,250
Steel frame and staircase construction			13	0½	21,336
Floors and roof construction, including screeds			4	4½	7,186
Brickwork			2	7	4,207
Steel fire protection			2	2¾	3,663
Fabric, including external doors glazed complete			5	6⅞	9,088
Internal partitions			4	6	7,363
Ceilings			4	2	6,820
Staircases, including handrails...			1	2½	1,975
Roof covering and rainwater goods				6½	901
Finishes—floors			3	2	5,157
Finishes—decorations				11	1,504
TOTAL NET COST OF BUILDING					£87,850
NET COST PER SQ. FT.			53	8	
GROSS COSTS:					
(*a*) Creature comforts—					
Part preliminaries, insurances, overheads and profits ...	£2,534				
Electric lighting and electric heating	12,953		11	7¾	19,054
Washing, sanitation and fire fighting	3,567				
(*b*) External works, including part preliminaries, insurances, overheads and profits	1,270				
Drainage...			4	2½	6,870
Car park					
Cross-overs	5,600				
Footpaths					
Service charges					
Sub-station					
(*c*) Demolitions			2	7½	4,250
TOTAL GROSS COST OF BUILDING					£118,024
GROSS COST PER SQ. FT.			72	1⅛	
TOTAL NET COST					£87,850
NET COST PER SQ. FT....			53	8	

sub-contractors & suppliers:

General builder's work: Foster & Dicksee Ltd.; *demolitions:* Wackett Bros.; *foundation piling:* Holmpress Piles Ltd.; *structural steel and erection:* Somerville-Barnard; *slate cills:* Bow, Slate & Enamel; *precast concrete floor units and treads:* Trollope & Colls Ltd.; *paving:* Plastering Ltd.; *precast and in-situ terrazzo:* Mosaic & Terrazzo Co.; *roofing:* Ragusa Asphalte Paving Co. Ltd.; *rainwater goods, fixings and ironmongery:* Locks, Bolts & Bars Co. Ltd.; *linoleum laying:* LCC Supply; *kilnoise suspended ceilings installation:* Whittakers Ltd.; *plastering:* Plastering Ltd.; *partitions:* Tenonflex Ltd.; *sanitary ware:* Adamsez Ltd.; *w.c. cubicles:* Venesta Ltd.; *electrical installation:* N. R. Kirk Ltd.; *plumbing installation:* Mumford & Bailey Ltd.; *metal work:* Light Steelwork Co.; *electrical fittings:* LCC Supply; *decorations:* W. J. Brooker Ltd.; *glazing:* Andrews Ltd.; *colourglaze:* Turners Asbestos Ltd.; *flush doors:* National Plywood Co.; *plaster board:* British Plasterboard (Mfg.) Ltd.; *kilnoise acoustic tiles and fixings:* William Kenyon & Sons Ltd.; *facing bricks:* Ryarsh Brick & Sand Co. Ltd.; *ready mix cement:* Greenham; *joinery manufacture:* Thomson & Balfour Ltd., Foster & Dicksee (Joinery) Ltd.

Housing: Planning for Future Needs

A Surveyor and an Architect Look Ahead

The possible effects of present trends in the design of housing estates and the developments in house design and equipment arising from the changing pattern of living were usefully explored in two recent addresses, one at the Royal Institution of Chartered Surveyors by Mr. A. L. Strachan, B.Sc, FRICS, on October 10, and the other at the Royal Society of Health, by Mr. J. M. Austin-Smith, MC, TD, AADip, FRIBA, on October 12. From these we take the following extracts.

The Changing Pattern of Living

IN THE COURSE of his paper on this subject MR. STRACHAN said: There begins to emerge an acceptance of more concentrated living—not in my view because the average person prefers to live closer and closer to his fellow men, but because he accepts that there are other matters of equal or greater importance. The plot of land which some years ago cost £400 now costs £1,000, so the prospective purchaser, whose available capital depends upon the amount which the building society is prepared to lend, contents himself with a smaller plot. The cost of building has risen so that there is an emphasis on planning to economise in living space. Other tendencies are at work to change the pattern of living. At the lower end of the social scale more and more families possess their own motor car. In new towns we started in the late nineteen forties by providing garages for 14 per cent of houses. Now that figure is closer to 50 per cent with space for nearly 100 per cent.

Segregation of Traffic

One solution to the car problem which has been developed since its introduction into this country for low cost housing in 1954/55 and which, I think, will be developed still further in the future, is the segregation of pedestrian and wheeled traffic instead of the traditional method by which all vehicular access is to the front of the house. The principle employed is to provide footpath access only to the front of the house, all vehicular access by trade vehicles being to the rear where private garages are sited and where clear naming and numbering is essential. The occupier of a house after garaging his car would normally use the rear access, but visitors by car, park in specially provided car parks placed at strategic points on the estate and then go by foot to the front door of the house they are visiting. By not having to utilise frontage for the provision of garages a high density is maintained and, by combining access to garages with vehicular access, costs of development are kept within reasonable bounds.

The adoption of rear access development will alter the two-storey terrace house plan which in low cost housing of recent years has involved the provision of storage space for fuel and refuse at the front, often resulting in wasteful planning and unsightly elevations. By providing service access at the rear of the house, storage space for bicycles, garden tools, fuel and refuse can be accommodated in a store at the end of the garden having a party wall with the garage.

A further trend in the design of houses, which I think will be developed increasingly in the future, is the three-storey terrace house. This is not a retrograde step, a reversion to Victorian planning as some people suggest, but arises again from the need to maintain and perhaps increase residential density while at the same time providing one garage per house. Examples of three-storey housing may already be seen in modern developments of both high and low cost housing. They differ from the Victorian three-storey house in that the ground floor is partially occupied by a garage. To take a typical three-storey house which has been erected at Basildon, within a frontage of 17 feet 5 inches, there is on the ground floor a garage, a dining-kitchen, fuel store, dustbin cupboard, outside store and wc. On the first floor there is a living-room along the back of the house, a combined bathroom and wc, and a bedroom, while on the top floor there are three bedrooms; the whole house containing about 1,100 square feet of floor space excluding the garage.

It should be remembered why this design has emerged, and that it is a four-bedroomed house and garage within a frontage of 17 feet 5 inches costing about £2,250. In my view, the house would be improved if the kitchen and dining-room or dining space were planned on the first floor leaving the ground floor for garage, cloakroom, utility room, fuel and refuse store, providing in effect a maisonette over a garage and storage space.

If the increase in prosperity during the past decade and the rise in the standard of living continues it is to be expected that refrigerators, washing machines, spin dryers, and the like will be developed and more labour-saving devices will be put on the market to reduce work in the kitchen. Already, however, the more extended use of these devices amongst people occupying houses built to minimum standards is showing the kitchens of the past decade to be inadequate and, if a similar development is to be anticipated in the next ten years, more attention will have to be paid to the layout, design, and size of the kitchen.

Compactness of Planning

What are the trends in better class speculative development? First, the lounge which is the most important room in the house must be light, comfortable and commodious—with a house in the five- to six-thousand pound class I suggest at least 240 square feet. The tendency is for the dining-room to be relatively small. People who buy this type of house today do not normally entertain more than eight people to dinner and modern furniture is designed accordingly. It is very convenient, however, if the dining-room adjoins the lounge and is either connected by a door or doors, or separated by one of the patent narrow-leaf folding screens so that when a party is given for a larger number of people the two rooms can be used as one. Business and professional men require a study; or a room of the same size may be needed as a television room. All this points to the necessity for a third room on the ground floor. The emphasis I think should be on flexibility. Some recent plans of speculative development which have come before me had an ingenious plan in which by the use of folding screens the study, lounge and dining-room could all, if need be, be thrown together to make an 'L' shaped room 25 feet across the width of the house, the overall floor space on two floors for a four-bedroom house being only 1,100 square feet. Contrary to what I am advocating, however, it is my experience that the traditional double-fronted house with entrance porch and entrance hall in the centre, the lounge running from front to back on one side of the hall, the dining-room and kitchen being sited on the other side of the hall, and the staircase rising from the end of the hall via a half-landing to the floor above, is still very popular.

Heating

It is within the sphere of central heating that I think some of the greatest changes may occur and I think emphasis in the future will be on gas and electric central heating systems as opposed to solid fuel boilers with radiators. By gas I mean gas-fired, selective space-heating units incorporating warm air outlet grilles at skirting levels with thermostatic control; and by electric central heating I mean underfloor electric heating in the ground floor, thermostatically controlled, with electricity taken at the off-peak period. In the new town with which I am concerned a speculative developer building 300 houses selling for between £2,750 to £3,800 has put underfloor electric heating in about 75 per cent. of the houses. The results support my view. Details of costs over a long period are not available but it seems that to maintain an internal temperature of 55° F. during an eight-month heating season in a house with just over 1,000 square feet of floor space costs about £35.

Whereas flat life is accepted and indeed preferred in certain European countries, I do not think that it will ever be popular with the average family in this country who want first and foremost a house and garden. While the family flat is inevitable in the large cities for reasons other than the preference of tenants, I do not think that it should or will play a large part in development or re-develop-

ment elsewhere. Rather will the emphasis be on higher density two- and three-storey housing of the type that I have described, and maisonettes.

With the development of constructional methods which have made the tower block of flats an economical proposition, progress in space heating by gas and electricity, and the mechanical disposal of refuse, the one- and two-bedroom flat in such a block, with wide views over town and country, and a lift into a basement garage, can be an attractive proposition to single people, childless couples, both of whom go out to work, and elderly people who no longer wish to shoulder the responsibilities of a house. This then is the trend of development now and in the future, and where family flats are essential, it is better that they should take the form of tower blocks so that sufficient open space can be provided in which the children can play and to ensure adequate light and air to the building.

The Effect of Present Trends

MR. J. M. AUSTIN-SMITH in the course of his address said: A sub-committee of the Central Housing Advisory Committee is at the moment collecting evidence on Housing Standards. The purpose of this paper is not to attempt to forecast the findings of this sub-committee nor to put forward detailed suggestions for alterations in housing standards, but to consider the broad trends, which any review of housing standards ought to take into account.

There is a great danger of approaching the whole question of reviewing housing standards largely in conformity with existing practice. It is to be hoped that the sub-committee will not fall into this trap, although the Royal Institute of British Architects, in their reply to the sub-committee's questionnaire, say that they feel in many cases the questions have been framed in terms which suggest that this is so. It is most important that housing standards should be flexible enough to permit completely new design approaches.

The Next 60 Years

Houses that will be built within the next few years in conformity with new housing standards will have a life of at least 60 years. This fact viewed in terms of strength of brickwork or damp-proof courses is not a matter for great concern. Viewed however in terms of the changes that are likely to take place in the way and standard of living during the next 60 years, it is to say the least, most alarming. It is only necessary to consider in the broadest terms the changes that have happened in the last 60 years to realise that there is a great danger that a house built today will in 60 years' time be as old-fashioned as a house built in 1900 is today. This danger will be a certainty unless the problem of reviewing housing standards is tackled by analysing the needs and requirements of people in the light of existing trends.

The problem of layout, and, more important, environment, is clearly one of the major problems of the future. In addition to providing the facilities of garaging and pedestrian segregation, the need for play spaces will increase in importance as the trend of women going out to work increases. Supervised nursery facilities and play spaces will be essential, as well as differing types of playgrounds and communal open space for differing age groups. We have much to learn in this field and the Scandinavian examples merit careful study.

A vital factor in providing the right type of environment is adequate privacy. The proper functioning of small private gardens, courts and patios is essential. There are strong indications that the traditional back garden is not the only solution, and that much smaller and enclosed areas are not only adequate but in some cases better. With this concept goes the need for improved landscape treatment.

The factor which has the biggest influence on environment is density. High density is not synonymous with overcrowding. The shortage of land for housing is now well known and has led the Minister of Housing and Local Government to issue Circular No. 37/60. This circular marks a most significant change in official policy as regards density, for it urges authorities to redevelop old low density areas at higher densities. This is completely contrary to what is happening at the moment. In an analysis, by the Ministry of Housing and Local Government, of development plans submitted to them, the general trend is always towards the reduction of residential densities, and even where densities are low, they tend to become lower.

It is very doubtful indeed whether people really like to be spread out in low density suburban sprawl. Densities will be higher than previously, but the additional amenities required will take up a large amount of space and will tend to keep gross density down, though still higher than at present, but the net density will have to rise considerably. An average overall present-day density without these additional amenities is probably 40 persons per acre. This will need to rise to about 70 persons per acre including all the additional amenities.

It is highly likely that the traditional street and plot pattern of development will disappear, and instead layouts such as Paradise Row at Henley on Thames, or the LCC Angrave-street Estate, or Housing Development by Prof. Sir Leslie Martin and Colin St. John Wilson will take their place. Some of these layouts will require considerable changes in by-laws concerning space around buildings. Most important is that the type of house that fits into such a concept will be radically different from present-day types.

House Heating

Probably the greatest influence will be whole-house heating. By far the simplest form of power is electricity and although there is a long way to go yet in improving under-floor heating and other methods of storage heating, it seems difficult not to believe that in the long run this must be the simplest way of providing at least the overall background heating for the whole house. Another intriguing use of electricity for heating is in the form of the electric blanket, both to keep people warm in bed and in the form of an underlay under the carpet.

It seems unlikely that in the foreseeable future nuclear energy will be available in small enough units for each house to have its own nuclear boiler, mainly because of the radiation hazards. It is, however, much more likely that in centres of towns where there are areas of high density housing there will be a use for nuclear power plants.

There will be an increased use of specialised electrical equipment. The electric toaster, washing machines (both clothes and crockery), cookers and refrigerators, are obvious present day examples. Cheap and simple timing equipment has just arrived and will be increasingly used to simplify the running and working of the house. The cleaning of the air and the killing of insects by electrostatic means is not far off.

Television has brought with it problems in planning the home. Primarily it has highlighted the need for privacy, the ability to get away from it and do something else. Herein lies the fundamental problem of future house planning. On the one hand there is the need to provide more equipment and better standards of heating and other installations, together with the need for more space to enable a greater variety of activities to be carried out. On the other hand there is the necessity of keeping costs down to reasonable levels, to build more but smaller units in areas of high density where large houses anyway would not be feasible. The two factors just do not equate.

Multi-use of Space

The way out of this dilemma can only be found in the multi-use of space, or in other words, the more economical use of space. The broad lines upon which the plans of homes will develop begin to emerge, and with it the flexibility necessary in any set of minimum standards to enable progress to be made.

The Minister of Housing has himself said that with the increasing cost of land, there will be less to spend on the house. If to the cost of land is also added the increased cost of installations and equipment, it becomes patently obvious that merely to demand higher space standards as a cure-all is to say the least unrealistic. The task is to provide better facilities and more usable space in less overall space.

This will require an enormous amount of research work and analysis and the courageous application of results. The knowledge required to undertake this work is more than one person can possess, and will demand a team approach, consisting probably of sociologists, physicists and architects. Their work must be based on a study of needs and requirements in the light of trends and not on opinions. New building materials and new technologies, as well as new building techniques will call for the co-operation of science and industry.

Youth Club at Stamford Hill

HOWARD V. LOBB & PARTNERS, architects

C. E. BALL & PARTNERS, quantity surveyors

HAMMOND & MILES LTD., general contractors

south-west elevation from playing field

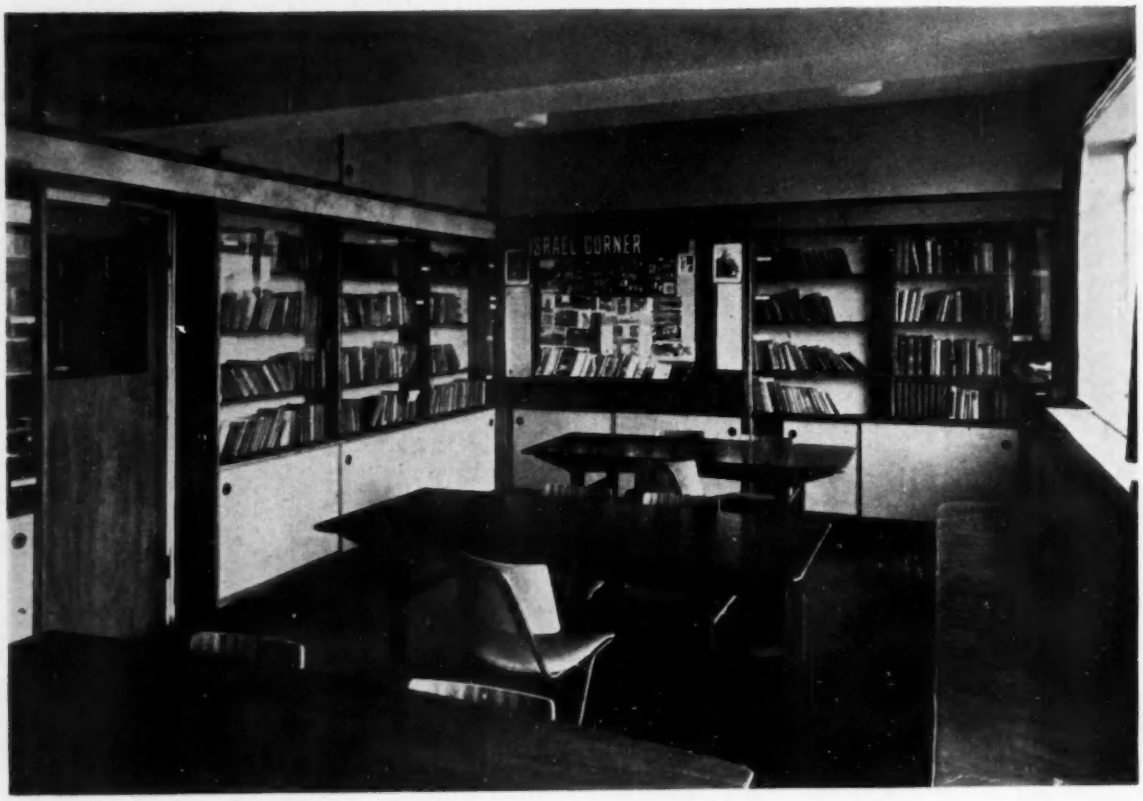
THE VICTORIA BOYS' CLUB was originally established in the East end of London, but due to a decreasing demand for club facilities in the area which was more than adequately served, it was decided to close down their activities and open new premises for both boys and girls in another part of London. The choice of Stamford Hill has been more than justified in the event, as demand has now outstripped the facilities provided.

The club were faced in 1954 with the problem of drawing up a schedule of accommodation in conjunction with the architects at a time when no other post-war experience was available to guide them and before the publication of the Albemarle Report. The club serves the age-groups of 10-13, 13-16, 16-19 and over 19, and it was decided as a matter of policy at an early stage to separate the accommodation for girls and boys, except for rooms in common use, such as the hall, canteen, library and roof terrace. This requirement, combined with the shape of the site with narrow frontage compared to depth, dictated the form of the building.

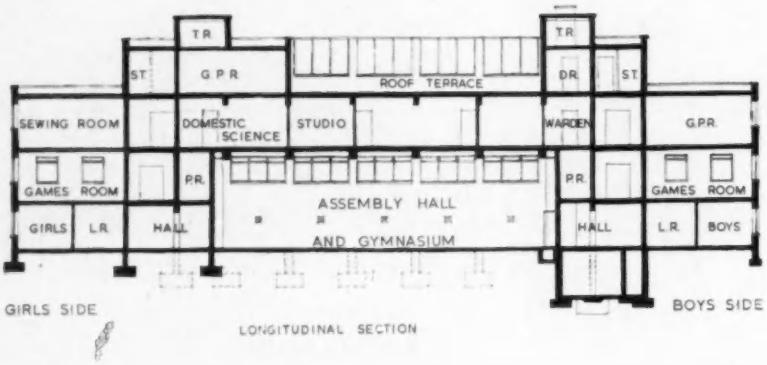
A load-bearing brick structure with reinforced concrete beams and hollow floors was adopted for reasons of economy, shape of rooms on plan, and steel shortage at the time. Flexibility was not a specific requirement except for the hall, which is used for physical training, dances, religious services, etc. Two kinds of brick facings with dark grey rendered panels were used to harmonise with the existing Synagogue buildings to the east.

The interior finish is necessarily spartan for reasons of economy and wear, except in the library, where fittings and furniture were presented by generous donors.

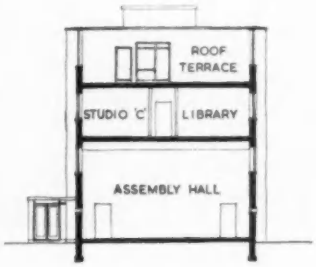
The greater part of the building cost of £58,539 was subscribed by supporters of the club, and the decision of the club officers not only to find a new location for their activities but to embark upon such a relatively ambitious building project was undoubtedly courageous.



the library



LONGITUDINAL SECTION

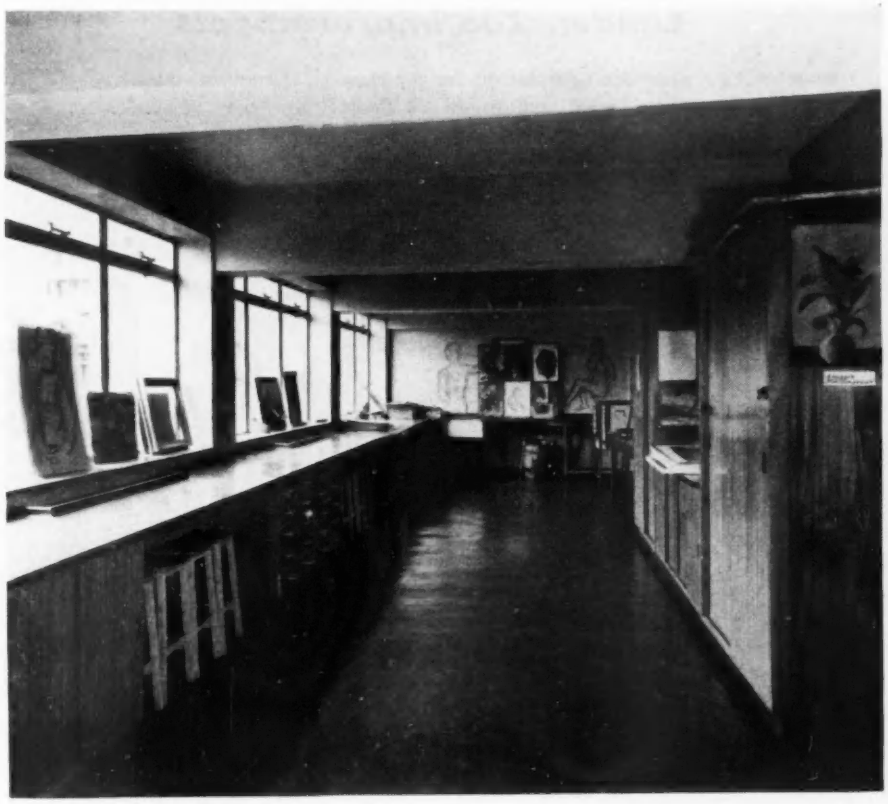


CROSS SECTION

multi-purpose hall

canteen and recreation

main staircase



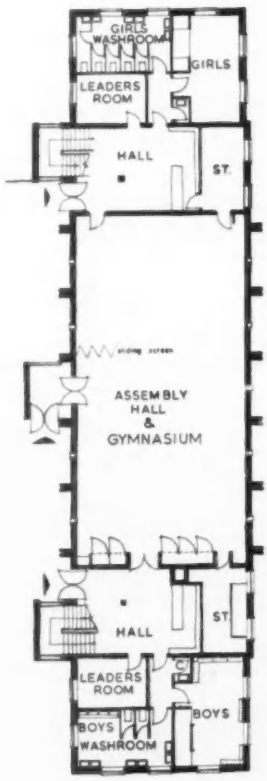
crafts room

Youth Club, Stamford Hill

sub-contractors & suppliers:

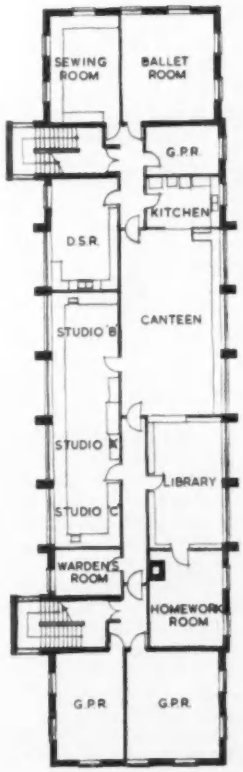
Heating and hot water installation: Rosser and Russell Ltd.; *electrical installation:* Troughton & Young Ltd.; *metal windows:* Aygee Ltd.; *sanitary fittings:* John Bolding & Sons Ltd.; *ironmongery:* Comyn Ching Ltd.; *precast concrete work:* Ferro-Concrete (Shepperton) Ltd.; *sliding folding doors:* Esavian Ltd.; *strip flooring:* Hollis Bros. Ltd.; *concrete reinforcement:* T. C. Jones & Co. Ltd.; *floor tiles:* Marley Tile Co. Ltd.; *mineralite exterior panels:* Kendall's Flooring Ltd.; *terrazzo partitions:* The Mosaic & Terrazzo Precast Co. Ltd.; *plastic wall finish:* Plastic Surfaces Ltd.; *granolithic pavings:* P.B. Industrial Flooring Ltd.; *asphalt tanking and felt roofing:* Prater Asphalte Co. Ltd.; *doors:* John Sadd & Sons Ltd.; *rolling shutter:* Tidmarsh & Sons.

GROUND Scale: 1 in. = 32 ft.

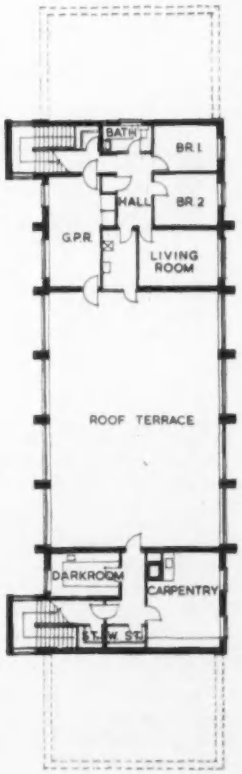


FIRST

SECOND



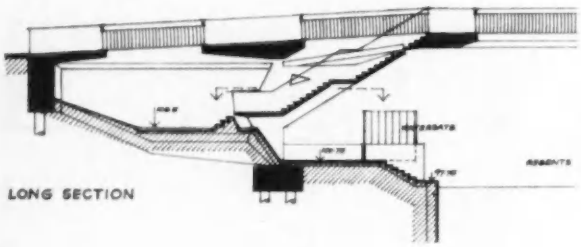
THIRD

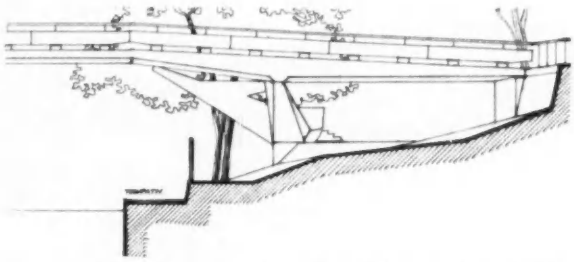


London Zoo Improvements

BRIDGWATER & SHEPHEARD, architects for landscaping and animal quarters
F. A. STENGELHOFEN, LRIBA, architect to the Zoological Society of London
SIR HUGH CASSON, NEVILLE CONDER & PARTNERS, architects for bridge

view from north bank of the canal



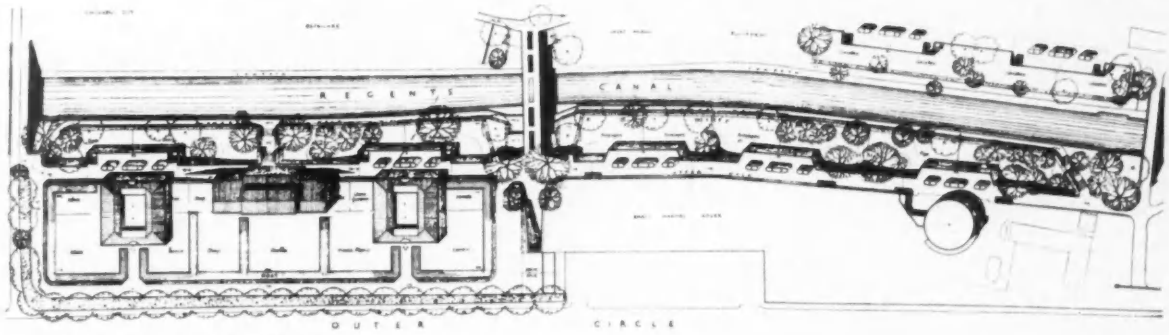


part section and elevation of the canal footbridge

IN MAY OF THIS YEAR Mr. Jack Cotton made to The Zoological Society of London a munificent gift of £250,000 to be spent on the redevelopment of the canal banks and the western section of the middle gardens, i.e. the area between the outer circle and the canal. The landscaping of the area, including the terracing and the design of the animal quarters on the canal banks, has been undertaken by Mr. Peter Shepheard of Bridgwater and Shepheard; the reconstruction of the giraffe house by the Society's architect, Mr. F. A. P. Stengelhofen; and Sir Hugh Casson, Neville Conder & Partners have designed the new bridge which will be built across the canal.

The work is scheduled to begin almost immediately, the first stage being the complete renovation of the giraffe house and the rebuilding of the two existing wings. The giraffe house was designed by Decimus Burton and built in 1836. It is one of the original houses of the zoo and is scheduled as a building of historic and architectural importance. While the accommodation for the animals will be improved and modernised, the external architecture will be retained. Consulting engineers for this portion are R. T. James & Partners. The wings have to be completely rebuilt and two new animal houses added. These houses, symmetrically placed on each side of the giraffe house, are buildings with a modest exterior subordinated to the giraffe house, but inside they will contain a dramatic display of the larger mammals, camels, bison, yaks, zebras, etc. The public will stand in a dark central space looking into raised dens lit by concealed windows above the public space. A completely new feature will be the moated paddocks which will surround the buildings, so that visitors will see the animals with no intervening fence or bars to mask the view.

view of south bank of the canal



plan of the improvement scheme

Houses for deer and antelopes will be built along the south bank of the canal, and the eastern part of the north bank. These houses will be built partially under the walk which runs along the top of the canal banks and partially projecting on to the canal paddocks. The walk and the paddocks form two terraces, the latter nine feet below the former, separated by a retaining wall. The buildings appear as projections of this wall, in which there are cave-like entrances for the animals. The high boundary fences along the canal will be demolished and the canal will be included in the general landscaping of the gardens. Assistant architect on this work is Margaret Maxwell, BArch, ARIBA; consulting engineer: F. J. Samuely & Partners.

The bridge is intended to improve communication between the north entrance and the middle and the south gardens. The double footway designed through the zoo may allow one way traffic only on each side during congested periods. The central staircases communicate with the new watergate on the canal and the new terraces formed on the banks as part of the general landscaping.

The construction is of concrete on bored pile foundations. The two cantilevered sides are 56 ft. long and are of 'in situ' concrete and the suspended centre section 42 ft. long will be precast in sections and post tensioned. The centre section will either be launched from one side or floated into position on a barge.

All structural concrete is bushhammered with a dark blue shap aggregate and a darkened cement. The precast balustrade has an exposed aggregate finish of white Derby Spar and an oiled teak handrail. The deck finish is tarmac. Associate architect for the bridge is Frank Shaw. Consulting engineer: Stephen Revesz.

Letters to the Editor

'Competition by Tender'; Knots in Timber; Direct Labour at Aylesbury; The Deadly Stiletto

SIR,—The RIBA statement on 'Competition by Tender' is not intended to say the last word on this subject. We do not pretend that the RIBA has found the perfect solutions to some very difficult problems, and we hope that as we gather more experience and discuss this question with local authorities and others concerned, better procedures will emerge.

It does seem to me, however, that the leading article 'The Province of Architecture' in 'The Builder' of October 7 is based on a misunderstanding of the aim of this statement. The statement did not take pains to ensure that the development 'should be designed irrevocably by an architect before any steps are taken to seek developers willing to invest their money in carrying it out,' nor was it intended to imply that developers would be invited to acquire 'the right and duty to carry out someone else's scheme for themselves at their own risk.' What it did attempt was to show that public and artistic standards must not be sacrificed to finance, and also to draw attention to the fact that financial considerations must not be allowed to override all other considerations.

It is quite essential that the public good must be the first consideration of all major developments. The system which is at present operated by many local authorities tends to give undue weight to high land values and private profit. Examples have already shown that the most responsible developers are fully conscious of the public good and, indeed, the ultimate success of many schemes depends upon the extent to which they have met the essential demands of good architecture and good planning. On the other hand, an unlimited system of tendering on this basis tends to exploit the architectural profession as a whole and may result in the employment of poor architects merely because they are economically efficient.

Good development, in the broadest sense, must properly co-ordinate good architecture, good planning, essential traffic requirements and sound economic expenditure. This combination is inherent in good architectural design and this result can be secured by more than one method. The best results are not secured by asking a developer and his architect to carry out the design of another architect, and the RIBA is endeavouring to ensure that good architecture is regarded as a vital necessity in the development of the centres of our towns, and that this is properly incorporated with the responsibilities which attach inevitably to the investment of large sums of money.

(SIR) THOMAS BENNETT [KBE, FRIBA],
43 Bloomsbury-square, WC1.

Knots in Timber

SIR,—I enjoy Mr. Kenyon's eminently practical commentaries, and I am delighted that in No. 10 ('The Builder' of October 7) he chose to write about Timber—probably our most versatile material.

I agree with Mr. Kenyon that the floor is not the place for knotty timber but I think it is quite wrong to condemn knots as blemishes wherever they are found, though I do not think Mr. Kenyon would do this.

I had the privilege of being one of two builders in the Timber Trade Delegation to British Columbia this summer, and spent a good deal of time with the men in the forests. Normally, trees do not grow without branches, consequently we find a very high proportion of timber has knots. Provided the knot is live and not disproportionately large, it can add to the beauty of wood that is not structural and not intended to take paint.

The Canadians are, of course, great users of wood for decorative purposes, both externally and internally and the knot is accepted as a natural characteristic. In my opinion, much useful and beautiful wood is discarded on account of knots that we could accept with advantage. Being a joiner I have an axe to grind!

NORMAN LONGLEY [CBE, FIOB],
James Longley & Co., Ltd.,
Crawley, Sussex.

Direct Labour at Aylesbury

SIR,—In 'The Builder' of September 16, p. 528, it is stated that Mr. Blair, an ETU delegate, told the TUC in Douglas recently that our Association's comparison of direct labour with private enterprise was 'not only misleading, but mischievous.'

The statement he refers to, made to the Housing Committee of the Aylesbury Borough Council by the deputation from this Association, was factual and was based upon statements made in the House of Commons, and upon information contained in the last Census of Production. The Electrical Trades Union appear to be refusing to face up to these facts, as they happen to contrast with their opinions.

J. J. GILES [FCIS],
Secretary, Aylesbury and District Association of Building Trades Employers.
19 Paradise-street, Oxford.

'. . . Who comes next to taste our Roman cheer?' (Lays of Ancient Rome)

The Deadly Stiletto

SIR,—It was indeed most refreshing to read in the penultimate paragraph of a reference in 'The Builder' of October 8, p. 643, to 'The Deadly Stiletto,' the phrase . . . 'delightful type of heel.'

Whilst agreeing that this heel is often dangerous and responsible for considerable floor damage, it is indeed a very elegant form, and often quite delightful.

E. RHODES,
Design Office, TCD Services, Ltd.,
Beach-rd., Litherland, Liverpool 21.

Amalgamation of Engineering Institutions

Terms Approved Between Civil and Municipal Engineers

THE TERMS of the amalgamation of the Institution of Civil Engineers and the Institution of Municipal Engineers have now been approved by the Councils of the two Institutions and embodied in a formal agreement.

The Institution of Civil Engineers are sending a voting paper and full details of the agreement together with a letter from their President, SIR HERBERT MANZONI, to some 17,000 corporate members in all parts of the world. The Institution of Municipal Engineers are similarly sending a voting paper to their 6,000 corporate members.

Sir Herbert outlines the principles which have encouraged his Council to take the step of the proposed amalgamation of the two Institutions. 'During the last four years,' he writes, 'the Council of the Institution of Civil Engineers have had under constant review the reunification of the profession, in the first instance, with other bodies closely allied to civil engineering in the modern and narrower sense of the words.

'The Council believes that engineering is one profession which covers all the specialist branches. Another belief of the Council is that the professional education of engineers should be broadly the same up to a certain stage, and that specialisation should follow. Subsequent practical training should be organised and should be tested without exception before a professional qualification is awarded.'

Sir Herbert goes on to say: 'The ultimate aim should be that of one society of professional engineers whose corporate members should be Chartered Engineers. This would resolve the difficulties presented by the present multiplicity of titles which professional engineers have bestowed upon themselves during the past 100 years, and which have created such confusion in the minds of the public.'

Old Persons' Flats, Paddington

J. J. DE SEGRAIS, FRIBA, honorary architect
BUDD & JONES, quantity surveyors
WALTER LILLY & CO. LTD., general contractors

main elevation

LEONORA HOUSE, Lanark-road, Maida Vale, W9, is the first building of its kind to be erected in the Borough by the Paddington Old People's Housing Association, which is a private organisation providing help for elderly Paddingtonians in all walks of life. The building consists of eighteen flatlets on three floors, with recreation rooms and manual workrooms in the semi-basement.

Each flatlet consists of one large room 19 ft. x 13 ft. with built-in cupboards, entrance hall, dining-kitchen with refrigerator and electric cooker, and fitted bathroom. Each unit is entirely self-contained and the corridors, staircases and ramp have all been carefully designed to make access to these flats as convenient as possible.

From the welfare side, the club and recreation rooms and manual occupation rooms for the elderly are grouped in the basement with separate entrances and necessary services.

Construction is of solid brickwork with brick facings to all elevations, precast stone cills, copings and cornices, metal windows in wood frames, reinforced concrete floors and staircases, and floor finishings of thermo-plastic tiles. All bathrooms and kitchens are tiled. Central heating installation throughout the building and hot water supply is by means of an oil-fired boiler.

A great number of items which are so important for the elderly, such as non-slip floors, low fitted baths with hand grips, position of switches, wall plugs, bell pushes and window catches have all been provided within easy reach. Entrance door bell and electrical release of entrance door from each individual flatlet is another amenity.

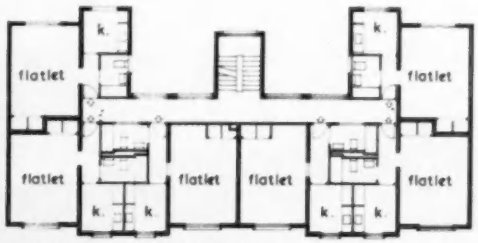
The work was started in October, 1959, and completed by the middle of August, 1960. The approximate cost is £35,000.

The building was named after the wife of Alderman W. E. Harriss, the chairman of the Paddington Old People's Association. The architect is a councillor of Paddington.

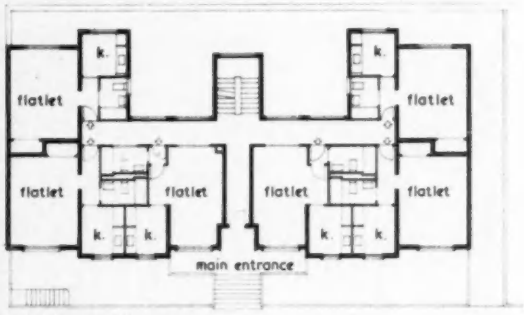
sub-contractors:

Mild stock facing bricks: Broad & Co. Ltd.; *reinforced concrete work:* Concrete (Southern) Ltd.; *plumbing and drainage:* J. C. Spooner & Sons Ltd.; *asphalt:* Asphaltic (London) Ltd.; *precast stone work:* W. H. Collings & Sons Ltd.; *electrical installation:* Edward Girdler Ltd.; *central heating and ventilating:* J. C. Spooner (Heating) Ltd.; *ironmongery:* Allgood Continental Ltd.; *metal windows and doors:* Henry Hope & Sons Ltd.; *balustrades and railings:* Mott & Partners; *floor tiling:* Resilient Tile & Flooring Co. (Ealing) Ltd.; *wall tiling:* Wiggins-Sankey Ltd.; *entry telephones:* Entryphone Co. Ltd.; *paints:* Imperial Chemical Industries Ltd.

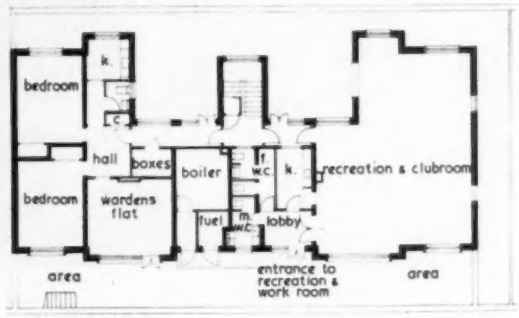
rear elevation



FIRST & SECOND FLOOR PLAN



GROUND FLOOR PLAN

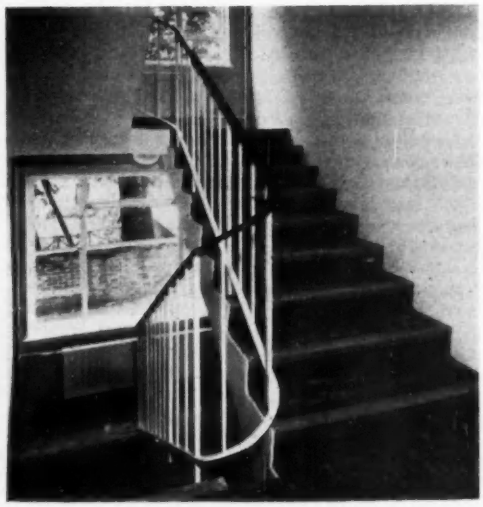


BASEMENT PLAN

Scale: 1 in. = 32 ft.

main room of a flatlet

main staircase



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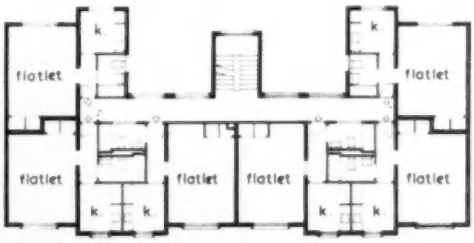

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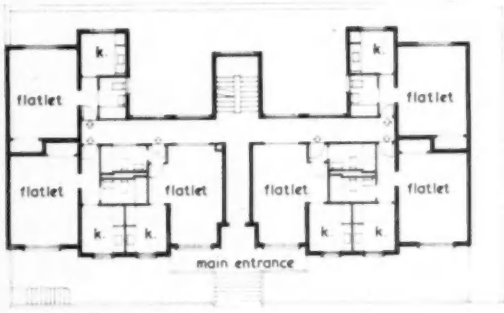

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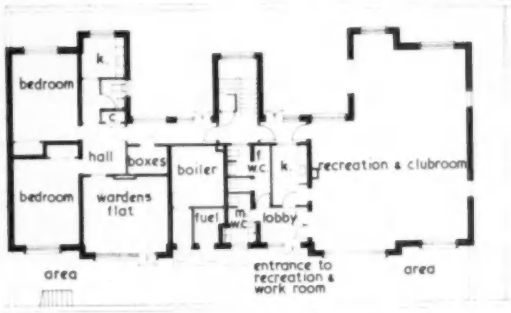

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Management Courses for Builders

DETAILS of their current management courses in building and civil engineering, which are held at Baylis House, near Slough, have been issued by Urwick, Orr and Partners Ltd., management consultants. One-week courses in 'Management and productivity in building and civil engineering' are to be held in January and February next, and four-week courses in 'Management in building and civil engineering' in January, February and March next. Details from Urwick Management Centre, Baylis House, Stoke Poges-lane, Slough, Bucks.

Repair of St. Olaves Windmill

ST. OLAVES WINDMILL, which is over 100 years old and which stands on the banks of the river Waveney on the Broads, is to be repaired and renovated after being damaged in last winter's storms. The Norfolk and Suffolk Yacht Owners' Association and the Broads Society are to help the villagers of St. Olaves raise over £400 for the repair and repainting of the mill.

Appointments

MR. PERCY JACKSON, senior assistant in the Sheffield City Engineers' Department for the past 12 years, and MR. KENNETH GALLEY, DIP TP, AMTPI, chief planning assistant at Doncaster, have been appointed assistant planning officers at Newcastle to work under the newly-appointed planning officer, a recently-created post.

An Architect's Estate

MR. STANLEY JOHN WEARING, FRIBA, of Norwich, left estate of £52,129 (gross £56,531).

Professional Announcement

MESSRS. ANDREW ROBERTS & PARTNERS, chartered quantity surveyors, have opened a branch office at 44-46 Bridge-st., Peterborough. (Tel.: 67905.)

Coming Events

FRIDAY, OCTOBER 21

ART WORKERS' GUILD.—'Chinese Ceramics: the Percival David Collection,' by Miss Margaret Medley, BA (Ladies' Night). 6 Queen-sq., WC1. 7 p.m.

TUESDAY, OCTOBER 25

NATIONAL HOUSING AND TOWN PLANNING COUNCIL.—60th National Housing & Town Planning Conference. The Dome, Brighton. 2.30 p.m. (until October 27).

BRISTOL CORPN.—Exhibition of work of the City Architect's Dept. Opening by Sir Gordon Russell. Bristol Building Centre, Stonebridge-hse., Colston-ave. 2.45 p.m.

INSTITUTION OF CIVIL ENGINEERS.—'The Application of Work Study to Local Authority Problems,' by Mr. M. E. Habershon. Great George-st., SW1. 5.30 p.m.

INSTITUTE OF BUILDERS' DISCUSSION CLUB.—'Heating Systems,' by Mr. J. A. Godfrey. 48 Bedford-sq., WC1. 6.30 p.m.

WEDNESDAY, OCTOBER 26

FACULTY OF ARCHITECTS AND SURVEYORS (LONDON BRANCH).—Lecture on: 'Contract Procedure,' by Mr. R. Stengsky. 68 Gloucester-pl., W1. 6 p.m.

ARCHITECTURAL ASSOCIATION.—AGM: 'The Cave to Cacophony.' An address by the President, Mr. E. Playne. 34/36 Bedford-sq., WC1. 8 p.m (also from Oct. 26 exhibition of paintings and drawings by members and students—until November 18).

THURSDAY, OCTOBER 27

SOCIETY OF MURAL PAINTERS.—'Mural Art To-day': a loan exhibition of work by British artists. Victoria & Albert Museum, SW7.

SOUTH EASTERN SOCIETY OF ARCHITECTS.—Luncheon to mark presentation of Area bronze medal to Messrs. Farmer & Dark. Central Avenue Hotel, Gravesend. 12.45 p.m., followed by unveiling of plaque on the Bowater Building, Northfleet, at 3.30 p.m.

MANCHESTER BUILDING CENTRE.—Opening by Sir Basil Spence. 115 Portland-st., Manchester. 3 p.m.

CARPENTERS' COMPANY.—Dinner, followed by annual prize-giving of the Building Crafts Training School. Presentations by Rear-Admiral Sir Anthony Miers, VC. 6.30 p.m.

INSTITUTE OF QUANTITY SURVEYORS (TRENT VALLEY CHAPTER).—Mr. A. J. Willis in a questions and answers programme. Welbeck Hotel, Nottingham. 7.30 p.m.

FRIDAY, OCTOBER 28

INSTITUTE OF INDUSTRIAL SAFETY OFFICERS.—7th annual conference. Majestic Hotel, Lytham St. Annes (until October 29).

INSTITUTE OF CONTEMPORARY ARTS.—Weekend visit to the Musée National d'Art Moderne, Paris. Depart London at 6 p.m.

INSTITUTE OF QUANTITY SURVEYORS.—Annual meeting, 98 Gloucester-pl., W1. 6.30 p.m.

LMBA (GOLFING SOCIETY).—11th annual dinner. Savoy Hotel, WC2. 7.45 p.m.

RIBA.—Members' Ball. 66 Portland-pl., W1. Reception by the President, 8.30-9 p.m. Dancing until 2 p.m.

A Hundred Years Ago

From The Builder of October 20, 1860

WANT OF A MUSEUM AND LIBRARY FOR THE EASTERN PART OF LONDON.—An effort is being made by a number of gentlemen who sympathise with the working classes of the east of London, to provide a public museum, combining a library, reading, and lecture rooms, for the eastern districts of the metropolis. The working men of the neighbourhood hearing of this, and understanding that a select committee of the House of Commons had recommended the formation of branch museums in the crowded districts of the metropolis, have formed a society, called 'The East London Museum and Library Working Men's Association' and have forwarded a petition to Parliament, signed by 10,500 working men, praying them to grant their assistance towards establishing a museum for the east of London.

CONCRETE STAIRCASE?

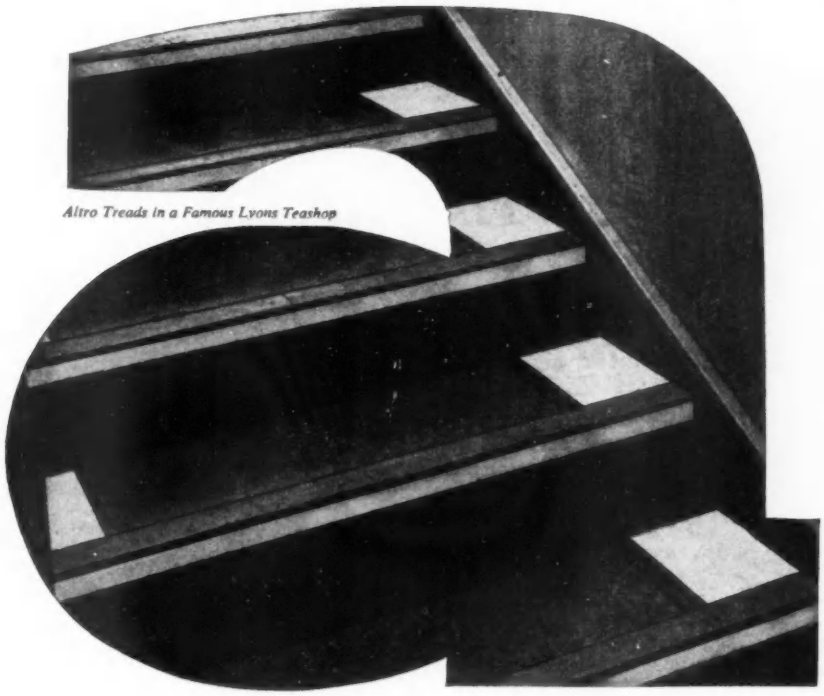
METAL STAIRCASE?

WIDE STAIRCASE?

NARROW STAIRCASE?

OUTDOOR STAIRCASE?

INDOOR STAIRCASE?



Altro Treads in a Famous Lyons Teashop

ALL CAN BE MADE SAFER WITH **altro** SAFETY TREADS

It matters very little what particular staircase you have in mind — Altro treads can make it safer. For example *it matters little* of what the staircase is made, or whether it's indoors or out . . . Altro treads can be fixed in a variety of ways, and are weatherproof and resistant to most alkalis, acids and oils.

It matters very little also how wide, how deep, or what colour the treads, or that you must work to a budget . . . Altro treads are inexpensive, come in a wide range of sizes and colours, and last almost as long as the staircase itself.

What does matter is: safety. Therefore when you see the need for a non-slip product (flooring, tiles, nosings, etc.), refer to your samples from the Altro range.

Altro stair-treads are formed from a specially-prepared non-brittle abrasive bonded with pure, flexible P.V.C. for maximum wear-resistance.

Write for samples to:—

THE ADAMITE COMPANY LIMITED

94-98 PETTY FRANCE, LONDON, S.W.1.

Telephone: ABBey 5911

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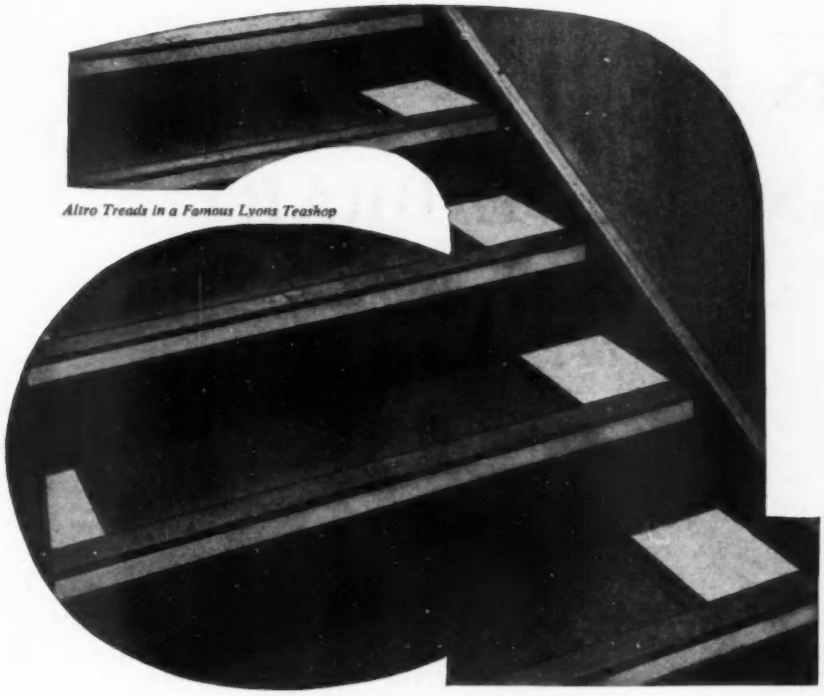

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sister guilds has been a feature of the Hull Guild's activities, and these have been successful at Doncaster, York and Scunthorpe. It is interesting to note the apparent northern bias. Since no comparable formation exists anywhere else in the country, it might be thought that north countrymen are not quite as reticent as those in the Midlands and the South. A parallel body, of course, is the Guild of Surveyors, of which Sir Albert Richardson is the president and Mr. Gordon Tomalin a vice-president.

The Hull Guild's reigning president is Mr. G. A. Mainprize, a builder, and its vice-presidents include surveyors, engineers and others; at least three architects are numbered among its past-presidents.

Future of RICS Offices

FOR SEVERAL YEARS the structural condition of No. 11 Great George-street (which is part of the offices of the Royal Institution of Chartered Surveyors) has been causing anxiety. In view of the limited life of the building, the Council of the Institution have been carefully considering their policy in relation to the future of the premises. To clarify the planning position, the Institution has now submitted to the London County Council as planning authority an outline planning application in respect of Nos. 11 and 12 Great George-street.

Chaos on Saturday

IS THERE really any solution to the situation which, each Saturday, results in the centres of towns of the south-east becoming choked with shoppers and their cars? How necessary is through-traffic to a shopping area, and how effective are the new parking and traffic restrictions that are constantly being introduced?

These questions will be considered in a radio discussion entitled 'The Saturday Nightmare,' to be heard in the Home Service 'In the South-East' programme on Monday evening, October 24.

With Robert Gunnell in the chair, the speakers will be: Derek Palmer, chairman of Maidstone District Chamber of Commerce; Superintendent Frank Pritchard, traffic superintendent of the County of Hertfordshire; and Graeme Shankland, a planning expert.

MoH Development Group

THE MINISTRY OF HEALTH DEVELOPMENT GROUP is losing three of its architectural staff to university and regional hospital board appointments. Mr. P. D. Cowan, ARIBA, is to carry out research into the 'Balanced Hospital Community' at University College, London, under the direction of Professor Llewelyn Davies, MA, FRIBA; Mr. R. C. Moss, ARIBA, has gone to the South East Metropolitan Regional Hospital Board as a principal assistant; and Mr. V. H. Lee will shortly join the North West Metropolitan Board as deputy regional architect. The Ministry are now advertising for additional staff.

RIBA Building Surveyors' Exam

AT THE RIBA Examination for the Office of Building Surveyor under Local Authorities, held on October 5, 6 and 7, six candidates presented themselves and the following were successful: Alan Atkinson, F. R. Lawson, H. J. Leadbetter and K. H. Sutch.

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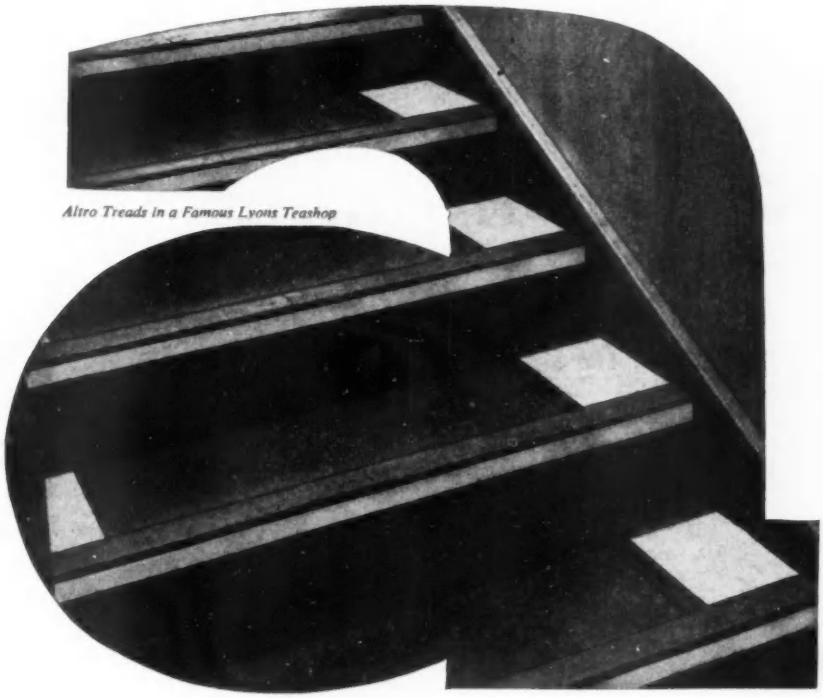

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More Everyday Things

BY ARTHUR W. KENYON, CBE, FRIBA

12. The Unexact Science

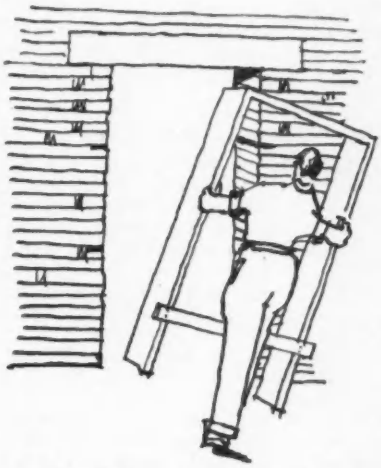
WHEN I HAVE tried to explain to clients that building is not an exact science, they have not wished to agree with me. In one case I remember well, my client, who happened to be an aeroplane designer, complained that his large timber sliding doors did not work with the precision he expected. It took some time before he finally saw the point that we were not working with a static material and we could not expect the precision which he achieved in the manufacture of an aeroplane.

To-day when we are using more static materials, it may be possible to get greater precision in our work, but so long as we use many different materials in a building, I think we must still expect to allow them time to settle down and live together. It is during this period that troubles may arise.

I have often heard the building industry compared with the motor car industry, but I really do not consider the comparison at all a useful one. A motor car is jigged up and all the parts have to fit together with absolute precision in a way that just does not apply to building construction.

I am moved to write on this subject because of cases which have recently been brought to my notice where the sort of defects which inevitably appear in new buildings have occurred just outside the statutory maintenance period, causing considerable annoyance to the owners, and yet on examination neither contractors nor architect can be said to be at fault.

I do not think the six months' maintenance period usually allowed for putting right defects is long enough to allow the parts of a building to settle down together; movement takes place over a longer period than this. Architects know all about the troubles that are likely to occur and they take all sorts of ingenious precautions to avoid them, but every building of character has a life of



LIFE SENTENCE

its own; it is not turned off an assembly line like a mass-produced article, and it will inevitably produce one or two troublesome idiosyncrasies, no matter how careful architect and contractor have been.

Of course, clients should be made aware of this from the start, but which of us is brave enough to tell a client before we begin that he will have troubles when the building is finished, the nature of which cannot be foreseen. We might at least warn him of some of the likely ones, but we cannot blame him for thinking that it is the architect's job to safeguard him against such events.

I repeat, building is not an exact science. Knowing this, are we doing everything we can to look after our clients' interests? Are we trying to build too quickly? Are we—architects and builders alike—providing enough supervision during progress? Are we making sure that all the new materials we are sentencing to long life together are actually suited to such union? Are all the trades manned with the same quality of skill which has gone into the best buildings of the past? We can all give our own answers to these questions.

It may be that with more prefabrication in the building industry, and with more work done on jigs than on the job itself, we shall more nearly approach a scientific exactitude in our work, but in the meantime we must expect a modest quota of troublesome defects in the early days of a new building, whilst at the same time doing everything we know to overcome them.

ICE Examinations

Traffic Engineering among New Subjects Introduced

THE INSTITUTION OF CIVIL ENGINEERS announce that as from October, 1962, a number of changes will be made in Part II of their Institution Examination.

Three new subjects will be introduced —Town and Country Planning; Highway Design and Traffic Engineering; and Water Supply, Sewerage and Sewage Treatment. At the same time, the subject 'Civil Engineering Construction' will supersede 'Building Construction.' For each of the new subjects the syllabus has yet to be approved by the Institution's Council. They have, however, approved the syllabus for 'Civil Engineering Construction,' which was drawn-up by Mr. P. E. Sleight, MEng.

From 1962 there will be two groups of papers for candidates in Part II of the Institution Examination. Group A will consist of four compulsory papers—Theory of Structures, Surveying, Geology and Soil Mechanics, and Hydraulics —plus one paper selected from the three new subjects being introduced and 'Civil Engineering Construction.' At the moment, Hydraulics is not compulsory in group A, and from 1962 Engineering Materials will not be a subject of examination as at present. Group B will remain in effect a separate—but widened in scope —examination jointly administered by the Institution of Civil Engineers and the Institution of Gas Engineers.

Part I of the Institution Examination, which remains unaltered, is common to nine engineering societies—the Institutions of Civil, Mechanical, Electrical, Municipal, Gas, Public Health, and Production Engineers; the Institute of Marine Engineers and the New Zealand Institution of Engineers.

To be elected an AMICE (Associate Member of the Institution of Civil Engineers) a candidate must have either a recognised university or college diploma, or pass the Institution Examination Parts I and II; and also pass the Professional Interview, after undergoing at least three years' practical experience.

Factory Plan Conditions

Godalming Cement Firm Wins Appeal

SURREY COUNTY COUNCIL'S industrial planning policy for Godalming, which has been vigorously opposed by the Town Council, has received a serious setback with the announcement by the Minister of Housing and Local Government that, in allowing an appeal by Langham Cement Products Ltd. the Minister has rejected the 'personal' permission which the county, as the local planning authority, are seeking to impose on the occupation of new factories in the town's industrial area of Catteshall-lane.

The company had appealed against the failure of the planning authority to give decisions within the prescribed period on their applications for planning permission for two new factories on land adjoining their existing premises in Catteshall-lane.

The point at issue between the appellants and the authority was the proposed imposition of conditions restricting the use of the factory to the appellants only, without consent for later use by some other company.

In a letter indicating his decision, the Minister stated he had noted that the 'personal' permission in this case was even more restrictive than the condition which he discharged in 1958 requiring adjacent land to be reserved for non-conforming industries in South-West Surrey (industries at present in areas zoned for other purposes).

The letter continued: 'While he agrees that the imposition of conditions requiring the reservation of sites for non-conforming industrial users is desirable and reasonable in certain circumstances, he is not satisfied that in this area such a condition would be justified, and still less one which seeks to restrict occupancy of an industrial site to one particular company. Accordingly, he has decided to allow the appeal.'

Architects' Registration Council of the UK

Engagement of Architects by Development Companies Referred to Constituent Bodies

THE one hundred and fourteenth ordinary meeting of the Architects Registration Council of the United Kingdom, held at 66 Portland-place, W1, on October 12, was unanimously in favour of the Professional Purposes Committee's proposals, *vis-à-vis* the circumstances and conditions of engagement of architects by certain property development companies. It will be remembered that at the last ordinary meeting on June 8 ('The Builder' of June 17) it was agreed that the Professional Purposes Committee should give the matter careful consideration and that the Council would reach a decision based on the committee's recommendations.

After a short debate on the recommendations, carefully handled by the chairman, Mr. A. G. Sheppard Fidler, MA, BArch, FRIBA, it was finally agreed to act on a motion put by Mr. D. Beaty Pownall, FRIBA, who suggested that the report should be referred to the constituent bodies for their consideration. Mr. Sheppard Fidler therefore moved that this action be taken and that the matter should remain 'sub judice' until the various interested parties had had time to study the report and to submit any observations. Meanwhile the Council 'felt disposed to endorse the recommendations subject to the observations of the constituent bodies.'

New Admissions

The Admission Committee, the Chairman of which is Mr. Vincent Burr, FRIBA, recommended that 132 applicants be admitted to the register. Of these 107 qualified by examination under section 6 (1) (c) of the Principal Act; 3 qualified under section 6 (1) (d) of the Act and under regulation 26 (a) (3); and 22 qualified under section 6 (1) (d) of the Act and under regulation 26 (a) (4). The report of the committee was carried and its recommendations adopted.

The report of the Board of Architectural Education, submitted by Mr. Denis Clarke Hall, FRIBA, vice-chairman, was carried and its recommendations adopted without comment. The Board recommended that the diploma final examination, followed by the examination in professional practice and practical experience, at the Department of Architecture, College of Arts and Crafts, Brighton, be recognised as qualifying for registration under section 6 (3) of the Principal Act with effect from June, 1959. The Board also recommended that the existing recognition for statutory registration of the University of Sheffield degree of bachelor of arts with honours in architecture, final examination, and diploma final examination, followed in each case by the examination in professional practice and practical experience, be extended to include the new degree, i.e. bachelor of architecture (BArch) with honours which the university proposes to institute.

The panel of examiners appointed for the maintenance scholarships, 1961, will comprise Mr. R. E. Enthoven, FRIBA, chairman, Mr. F. F. S. Bryson for general knowledge, Dr. E. S. Martin, mathematics, Dr. G. I. Sinclair, essay, and Mr. Hubert Lidbetter, FRIBA, drawing and design tests. It was agreed that the income limit of the parents or guardians of applicants for admission to the 1961 maintenance scholarship examination be the same as that in operation for the 1960 examination. This was an upper income limit of £2,250, with an allowance of £300 in respect of each dependent, excluding the candidate.

Retention Fees Unpaid

The Finance and General Purposes Committee, chairman Mr. R. O. Foster, JP, FRIBA, recommended that applications from some ten architects for reinstatement on the register be granted.

Mr. Foster reported that up to the time of the meeting there were 166 architects who had not paid any part of the retention fee, 6 who had paid £1 only, and a further 2 who had paid a lesser amount. This made a total of 174 defaulters, a great improvement on 1959, when the total was 438. The committee recommended that the names of those architects resident in the United Kingdom who did not pay the retention fee in full by October 31 be removed from the register without further warning; and that the names of architects resident overseas who did not pay by December 31 be likewise removed.

In strict enforcement of Regulation 38 it was proposed to take final action in the cases of repeated defaulters. On September 20 there were fifty-seven architects practising in the United Kingdom who had not paid the 1960 retention fee, and who at least once before within the last four years delayed payment until after they had received the September letter of warning. They came, therefore, under the category of 'repeated defaulters.' The committee recommended that a special letter be sent with the usual demand note in December, warning these architects that unless they paid the 1961 retention fee within the date of the first written demand, their names would be removed from the register.

At the 113th ordinary meeting on June 8 a suggestion that the annual register should be sold at a higher price to non-architects was referred back to the committee for further information. The committee now recommended that as from 1961 the cost should be 15s. to architects, and 30s. to non-architects. It was stated that the Council regularly suffered substantial losses on the publication of the register; in 1955 the loss was £167, in 1956 it was £326, and in 1957 it was £250. The latest available figure for 1960 was in the region of £200, which was not expected to be greatly reduced. The committee realised that some loss was to be expected, but that it could be substantially mitigated if its proposal was implemented. The report of the committee was carried, although a private resolution concerning members' travelling expenses was referred back for further study.

Once again the most controversial report was that of the Professional Purposes Committee, chairman Mr. L. A. Chackett, FRIBA. Its recommendations and proposals, however, received surprisingly little opposition.

The committee considered an inquiry from a firm of architects as to whether it was permissible to insert an advertisement for staff in 'displayed form' in a national newspaper. In the past it has been held that this form of advertising was ostentatious and, therefore, unprofessional; but, having regard to recent advice in respect of advertisements on television ('The Builder' of March 25) and the increasing difficulties in obtaining staff, they informed the firm that no objection would be raised to a displayed advert for architectural staff provided it appeared over a box number, and that the name and address of the advertiser was not mentioned in the advertisement.

A Fundamental Difference

Mr. Eric Lyons, OBE, FRIBA, suggested that private firms were rather at a disadvantage in this respect. He said that it was not considered wrong for official architects, i.e. local authorities, to advertise quite openly, thus indicating the attractiveness or not of the work, or the eminence of the chief, and so scoring over the private firm. Although a private firm could indicate location and type of work, it could not always appeal immediately to a young architect or architectural assistant seeking employment with the most attractive possibilities; salaries, of course, always excepted. Mr. Sheppard Fidler agreed, but reminded members of the fundamental difference in this respect between the architect in private practice and the architect in public or local authority employment. The latter could not expect monetary gain through making himself known, whereas a private practitioner could, even though that was not his purpose. In any case, continued Mr. Fidler, it was only recently that architects were allowed to use this form at all.

Mr. Chackett then submitted that the whole idea of the restriction was simply to prevent an architect gaining profit in the form of commissions from his advertising. The scarcity of staff, he said, had made advertising in the National Press necessary and the Council could not justifiably bar this method of display in limited form.

Erroneous Designation

The committee deplored the wrongful use of designation containing the word 'architect' by staffs of local and other authorities. Notice was brought to the Council of a number of advertisements which had recently been inserted in the Professional Press for 'assistant architects' and 'junior assistant architects,'

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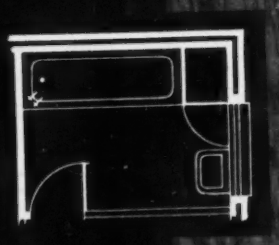

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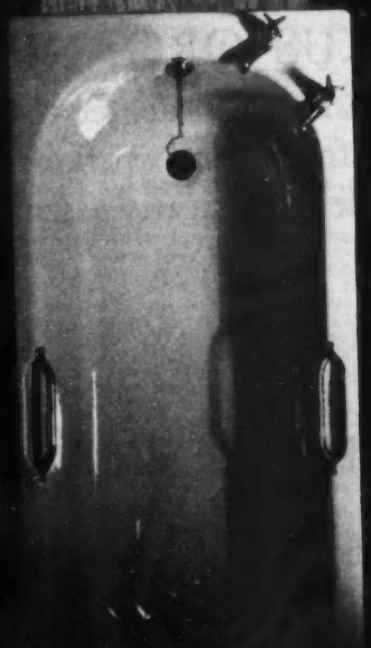

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although it was clear from the qualifications required for these posts that the successful applicants were not likely to be registered or be qualified for registration. The registrar had since written to each of the authorities concerned, drawing their attention to the provisions of the Acts, and the authorities had replied, expressing their apologies, and agreeing to alter the offending titles to 'architectural assistants.'

The committee finally reported on three successful prosecutions under the Registration Acts, and letters of warning were sent in two cases where persons were wrongly referred to in advertisements as architects.

The Council were informed that Professor R. Llewelyn Davies, FRIBA, who was already serving on the Board of Architectural Education as one of its nominees, will in future be the representative of the Bartlett School of Architecture, in succession to Professor H. O. Corfiato, FRIBA. Professor Corfiato will, however, remain on the Board as the nominee of the University of London.

The meeting ended on a note of quasi-comedy when the registrar, submitting his report, informed the Council about the activities of a certain firm of public relations consultants. This firm had written to him enclosing a brochure and asking whether it was permissible to approach architects with a view to acting for them in its capacity as advertising agents, etc. The registrar duly informed the firm that no architect would or, indeed, could, engage its services since it was contrary to the Code of Professional Conduct to advertise. Notwithstanding this 'warning-off' letter the firm in question began promptly to circularise architects, offering them its professional services. The end of the story was magnificent for the public relations consultants unwittingly sent one of the brochures to the chairman of the Professional Purposes Committee.

The Institute of Quantity Surveyors

Successful 21st Anniversary Dinner

'SO MUCH has the Institute gained in prestige and influence that the Board of Trade has allowed us to dispense with the word "Limited" in our title,' MR. J. LESTER, FRSA, MRSH, told members and their guests who attended the 21st anniversary dinner and dance of the Institute of Quantity Surveyors, held in the Trocadero Restaurant, W1, on October 14.

The President, who was responding to the toast of 'The Institute,' proposed by Lt. Col. B. C. G. Shore, LRIBA, FIAS, briefly recapitulated the two main purposes for which the Institute had been founded—to provide an association to be devoted exclusively to the interests of quantity surveyors; and to open that association to all practitioners irrespective of whether they were in private practice or were engaged on contractors' staff.

'In these 21 years we have gained steadily in prestige and influence,' said Mr. Lester, who added that it had been a great personal pleasure to him recently to have attended the inauguration in Glasgow of a Scottish branch with three chapters.

In humorous reminiscent vein, the President said that the only note of sadness was the fact that not all those who had joined in the formation of the Institute in 1939 were with them that evening, 'and of those that are, some now talk about symptoms that used to talk about emotions.' He felt that the future for the Institute was bright.

'Quality' as Well as 'Quality'

Earlier LT. COL. SHORE congratulated the Institute on going from strength to strength—something which it owed to the fine work of its President and honorary officers and committee. 'But I want to sound one warning note,' he said, 'and that is that the Institute should continue to think of quality as well as quantity, and I ask all the younger members to keep the need for quality uppermost in their work.

'Quantity surveyors have the job not only of fitting the building pieces together but of influencing the choice of better materials; quality must always be in their minds,' he said.

Lt. Col. Shore also stressed the point that professional bodies did not always see that enough attention was paid to the arts in general. 'A broadening of interest in fields of taste in the arts could help not only this Institute but the country as a whole. There is too much sickness and disease in the arts today,' he said. 'If people will only dare to speak out when they see things they do not like, it would be a good thing.'

Responding to the toast of 'The Guests,' proposed by MR. R. D. WOODS, DSC, the Mayor of St. Marylebone, CLLR. GREGORY MATVEIEFF, JP, said that quantity surveyors fulfilled a most useful function in pointing out in terms of hard cash the consequences of the bright ideas of housing committees and their architects, and so causing some rapid re-thinking. He congratulated the Institute on its progress, and wished it, on behalf of the many guests present, equal success in the future.

Those present included:

Mrs. J. Lester, The Mayor of Westminster and Mrs. R. L. Everest, the Chairman of the London County Council (Mrs. Florence Cayford) and Mr. John Cayford, Mrs. G. Matveieff, Mrs. Sena Shore, the Mayor of Lambeth and Mrs. C. F. Hart, Lt.-Col. G. W. Kirkland, Cllr. W. J. Clark and Mrs. Clark, Mr. & Mrs. Stanley Mayne, Mr. & Mrs. J. R. Newman-Booth, Mr. & Mrs. Sydney Clough, Mr. & Mrs. F. L. Howe, Mr. & Mrs. J. D. Gilbert, Mr. & Mrs. D. C. Bailey, Mr. & Mrs. D. Bilham, Major J. Youdan Briggs, Mr. & Mrs. H. T. Burke, Mr. & Mrs. T. R. Carpenter, Mr. & Mrs. E. W. Cooper, Mr. & Mrs. E. G. Cornish, Col. & Mrs. M. H. de L'Orme, Mr. & Mrs. P. Frutiger, Mr. & Mrs. H. Fulford, Mr. & Mrs. J. Gregg, Mr. & Mrs. T. E. Hall, Mr. & Mrs. D. S. Hinchliffe, Mr. & Mrs. R. J. Husband, Mr. & Mrs. N. Keep, Mr. & Mrs. Ian M. Leslie, Mr. B. E. Lucas;

Mr. & Mrs. W. J. Martin, Mr. W. J. Masterman (secretary) and Mrs. E. M. Masterman, Mr. & Mrs. S. A. Newman, Mr. & Mrs. T. G. Orange, Mr. & Mrs. L. Phillips, Mr. & Mrs. D. Ransome, Mr. & Mrs. D. A. G. Reid, Mr. & Mrs. E. M. Rice, Mr. J. W. Rowley, Mr. & Mrs. H. Schofield, Mr. & Mrs. C. E. Smart, Mr. & Mrs. Frederick Snow, Mr. & Mrs. H. M. Soar, Mr. Gordon Tomalin, Mr. W. R. Turner, Mr. & Mrs. Arthur L. Watts, Mr. & Mrs. L. F. West, and Mrs. R. D. Wood.

Competition News

Hotel Unit, Dublin

TWO YEARS AGO £200,000 was spent in the Republic of Ireland on hotel buildings, extensions and improvements for tourist accommodation. In 1959 the amount spent rose to £600,000. This year it is expected to be £700,000. Estimates by the Government supported tourist boards in the Republic and Northern Ireland are that tourists are now bringing about £50 million a year into Ireland.

The figures were given by Mr. T. J. O'Driscoll, director general of Bord Failte Eireann, the government-supported tourist development board in the Republic, at a meeting at the Building Centre, Dublin, on October 11 when an architectural competition was announced by Bowaters Irish Wallboard Mills Ltd.

Open to architects and architectural students in Ireland, the competition is for the design of a hotel unit comprising within 400 sq. ft. a double bedroom, bathroom and living-room, the living-room to be convertible for an extra bedroom, using Bowater board in structural and decorative applications and the design of built-in furniture and fitments.

Assessors are Mr. Kevin Barry, B.Arch., MRIAI, ARIBA, technical manager, Bord Failte Eireann; Mr. Edward W. Brady, FRIAI, and Mr. A. D. Devane, BArch, MRIAI, ARIBA. For the design placed first the Bowater Organisation will award a prize of 125 guineas. The second award is 30 guineas and a third is 20 guineas. Conditions from the Building Centre, 17 Lower Baggot-street, Dublin. Closing date December 10, 1960.

General Hospital at Boston

MORE than 50 entries from architects all over the country have been received by the Sheffield Regional Hospital Board in connection with the architectural competition for a proposed new general hospital at Boston, Lincolnshire. The entries will be displayed in the main ward block of the vacant Crimicar Lane Hospital.

Obituary

Wilfred Thorpe, MBE, LRIBA

THE DEATH OCCURRED on October 8 of Mr. Wilfrid Thorpe, MBE, LRIBA, a partner in the firm of Thorpe & Smith, chartered architects, of Manchester and Denton. He was awarded the MBE in the New Year honours list of 1939 for his work in the savings movement.

Raymond Everard Hawkins, LRIBA

SENIOR partner of Messrs. Hawkins & Roberts, chartered architects and surveyors, of Cannock, Mr. Raymond Everard Hawkins, LRIBA, died at his home on October 14.

Land for Houses

Conservatives Debate Review of the Planning Acts

THE CONSERVATIVE PARTY, at its annual conference last week in Scarborough, debated the question of town and country planning on a motion that, in the belief that the high and rising price of building land was detrimental to the Conservative policy of spreading house ownership as widely as possible, the Government should take steps to ease the pressure on, and consequently the price of, building sites by relaxation of the planning Acts where necessary to make more land available; to allow higher density building in appropriate cases; and to encourage the full development of central sites, many of which were not properly utilized.

Introducing the debate, MR. J. D. ILETT said that what was needed now was the same stability in building land prices as there was in the cost-of-living index. To alleviate the problems he called for a further review of the Town and Country Planning Act, a new approach to local authorities about densities, and redevelopment upwards and not sideways (cheers). He suggested that the redevelopment of central sites should be in the hands of private owners who should conform strictly to the existing plans. If, after planning approval had been given, land were not developed within, say, three years, they should be liable to a tax.

Replying to the debate, MR. BROOKE, Minister of Housing and Local Government, emphasised that so long as he was Minister the countryside would be preserved. The Government were determined to hold the green belts, but he told the conference that they could not have those and hope for cheaper building land in the neighbourhood. Nearly 100,000 new houses were needed every year to keep pace with the rise in population, while prosperity under a Conservative Government meant that more people wanted better homes than they had at present.

Making Land Available

He said he was in the position of replying to a motion which was urging him to do what he had already done. 'Where there is a green belt,' he said, 'it is the duty of local authorities, as well as my duty as Minister, to see that adequate land is available for building elsewhere. I cannot stop people from bidding high prices for land in particular places if they covet it, but I am determined to avoid artificial scarcity when the supply of building land is restricted without good reason.

'I shall see that local authorities are allocated enough land ample to meet requirements, but I cannot promise that it will be in precisely those places where people would most like to live.'

The country, he continued, would have to accept higher densities in future in the suburbs and the towns within range of a big city, places where there were almost nothing but two-storey houses. People must be prepared to build for higher densities if they were to save green belts and good agricultural land, and it would almost certainly entail tall flats in places.

MR. E. I. BROWN, the chairman, said that the Minister had suggested that if the words in the motion 'by relaxation of the planning Acts' were changed to 'modification of planning policy' it would be better. This was agreed, and the amended motion was carried by a large majority.

'Planning and the Motor Vehicle'

Mr. John Hay's Address at TCPA's Conference

A CONFERENCE on 'Planning and the Motor Vehicle,' organised by the Town and Country Planning Association, was held at Church House, Westminster, on October 18 and 19. Mr. John Hay, MP, Joint Parliamentary Secretary, Ministry of Transport, spoke on 'The Planning of the National Road System,' and following is a summary of his paper. MR. HAY said:

The administration and planning of our national road system still shows features derived from the local parish responsibilities on the one hand and the turnpike trusts on the other, but it is the legislation of the present century which has established the pattern whereby the Central Government is responsible for the main traffic arteries while the local authorities look after the other roads, being assisted by a financial contribution varying from 50 per cent to 75 per cent according to the importance of the road for other than local traffic. This reflects the fact that while only some 4 per cent of our 165,000 miles of road are trunk roads, these carry one-third of the total traffic.

The Basic Criterion

The object of our road planning is to provide a national system of through routes and a complementary regional system to feed these and to cater for needs in urban areas. The basic criterion must be the volume of traffic. Census figures show that vehicle mileage has doubled over the past decade, and is increasing at an average rate of 7 per cent per annum. Various corrections are made to this crude figure and we are at present using an annual growth factor of 5 per cent compound. It is a study of these figures in relation to known road capacity which has led to the selection of the 'five major projects' for initial development. But side by side with these are plans for the removal of danger points and bottlenecks and for the relief of urban congestion, the initiative in the latter case resting primarily with the local authorities as the highway authority for classified roads.

The fact that the local authorities are not only responsible for classified roads but also act as the Minister's agents in respect of trunk roads points the way to the practical integration of highway planning and control of development generally, for it is normally these same bodies who are the local planning authorities. Great importance is attached to the inclusion of road improvements in the Development Plan after consultation first locally and subsequently between Departments. The scheme cannot all be implemented at once. Selection is on the basis of traffic need, and techniques are being developed to assist in assessing the benefits which are likely to accrue from each.

The inclusion of a scheme in the Development Plan is only the start of a long process. In addition to the engineering work, more detailed consultations with local interests are necessary and in all the more important cases draft proposals must be published in order to ensure that all possible objections are considered. This process and the acquisition of the necessary land means that four years or more may elapse before a major trunk road scheme is ready to start, and one of our main planning tasks is to ensure that there is always a sufficiency of schemes in the pipeline.

The Ministry attach importance to the co-ordinated planning of regional routes. In London the London County Council is the improvement authority and in the provinces four conurbation highway committees have been set up to prepare 20-year road programmes for their areas.

Other speakers at the conference included Mr. C. D. Buchanan, ARIBA, who spoke on 'Transport: The Crux of City Planning'; Mr. Alan Day, on 'Car Ownership and Use'; and Mr Frederick Gibberd, CBE, FRIBA, on 'The Motor Car, the Town and the Village.' Extracts from these papers will be given in an early issue.

Local Government Officers

Authorities 'Not Getting Quality Needed'

ADDRESSING the concluding session of the conference of the Association of Municipal Corporations on September 22, DAME EVELYN SHARP, Permanent Secretary of the Ministry of Housing and Local Government, said she did not believe that local government was getting the quality of officers needed, but that the solution of this problem, lay largely in the hands of the authorities.

'It is essential that they should get at least some of the best people available,' Dame Evelyn continued, 'and they must also ask themselves: Are they employed to the best advantage? Are, for example, officers allowed to circulate between departments, or do authorities get into the habit of appointing the deputy whom they know and trust without even going elsewhere to see if a more suitable candidate could be found? I would advise that all local government positions should be thrown open to all officers.'

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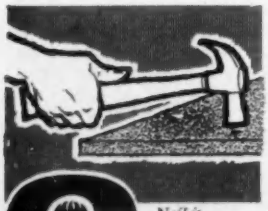

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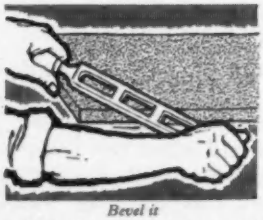

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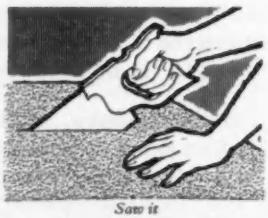

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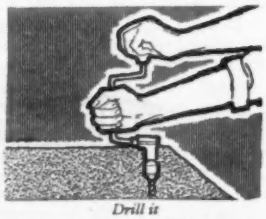

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Parliament in the New Session

Legislation Affecting the Building Industry

FROM OUR PARLIAMENTARY CORRESPONDENT

AFTER an eventful recess on the international and domestic scenes, MPs reassemble next Tuesday (October 25), to put the finishing touches to the first session of the new Parliament. After the final stages of a few minor Bills, Parliament will be prorogued and the new session will open with the Queen's Speech in the House of Lords on the morning of Tuesday, November 1.

There has been much to interest all sections of the building industry in the closing session and the signs are that this will continue in the new, especially when it seems highly likely that among the new legislation to come before the House will be a Public Health (Miscellaneous Provisions) Bill.

Ministers and Government Departments are shy of announcing definite commitments before the Queen's Speech is read from the Throne, but this Bill was promised by the Minister of Housing and Local Government in December, 1959. It is expected to include some change in the system of building by-laws about which the Minister consulted the local authority associations earlier this year. Anyway, the Bill will apply generally to the country a large number of provisions relating to public health which are scattered through private Acts promoted by local authorities in recent years.

Covent Garden Market

The Covent Garden Market Bill is known to be coming as it was mentioned in last year's Queen's Speech but not introduced. This measure will reorganise and improve Covent Garden market by establishing a Covent Garden Market Authority. The scheme has proved complex and affects many interests. Because of this the then Minister of Agriculture, Mr. John Hare (now Minister of Labour) decided in March to delay the introduction of the Bill until later in the year. Another Bill in prospect is one dealing with weights and measures, it being promised by the President of the Board of Trade in January.

Besides Government Bills there will be the usual private members' and private Bills. In the latter it is understood that Newport Corporation intend to promote a Bill to provide for a second bridge over the River Usk which would be a classified road project. The Common Council of the City of London have also asked the British Transport Commission to initiate legislation to permit the resiting of the Metropolitan railway between Moor Lane and Barbican, preliminary to redevelopment of the Barbican area for residential purposes. Thus if things proceed smoothly the necessary legislative approval should be sought in the next annual BTC Bill.

In addition to legislation, the announcement in July by the Government that public capital expenditure in 1961-62 will be pegged at the level of the current financial year will have its continued repercussions in the new session. The Commons have made improvements in their procedure in relation to the control of expenditure. New opportunities for debates on the reports from the Select Committee on Estimates and from the Public Accounts Committee will be provided on three days.

Capital Investment

There is being published this autumn a White Paper on the investment programmes in the public sector, including the nationalised industries, and between now and Christmas one day will be allocated for MPs to debate the capital investment programmes. Thus MPs have succeeded in their demands to discuss capital financial policy and give their own views on the priorities to be followed.

The announced increases in the roads programmes shows that capital expenditure in some other sphere will be cut. These are the kind of facts that will emerge and be debated on the three days set aside by the Government and Opposition, who, by custom, choose the subjects to be debated on Supply Days.

While the Commons generally has been seeking more control over Government capital expenditure, the Opposition are certain to press for equally close scrutiny of the private sector and in this they are known to include the high cost of land and 'luxury building.'

The Labour Party conference at Scarborough passed a resolution asking the National Executive to draw up a programme to extend public ownership, which could be implemented by the next Labour Government, so that it could be presented for decision at the 1962 Party conference. The executive were requested to re-examine public ownership measures, including land and the building industry. Another resolution which is bound to be reflected in the case the Opposition expound in Parliament was one condemning 'the growing evil of land speculation.'

Housing and Rents

Housing and rents policy is likely to generate some heat although, accepting it as better late than never, the Opposition ought to show a little satisfaction at the Minister of Housing's approval of a New Town at North Killingworth, near Newcastle, as well as the proposal for a New Town at Skelmersdale, Lancashire, to take Merseyside overspill (see p. 751).

The debates and questions of this closing session do appear to indicate that Members of Parliament are responding to the calls and pressure for good planning and design and that Ministers are heeding the advice of the professional bodies. For instance, the Minister of Transport gave an unequivocal assurance that all the resources of his department would be used to see that new road projects would meet the highest standards of design. To stress this eagerness, the Minister of Transport announced in July, and the Ministry of Transport again this month, that Mr. C. D. Buchanan, ARIBA, was joining their staff.

Other subjects and controversies reflecting architectural taste have been aired in Commons and Lords—the Staines Bridge, the Monico site and the Hyde Park Hotel are but three. It is to be hoped that this watch-dog attitude will continue although it is a pity that the Commons now lacks the presence of an architect.

Nevertheless, two MPs connected with building, Mr. Albert Costain, Conservative MP for Folkestone and Hythe, and Mr. Donald Chapman, Labour MP for Birmingham, Northfield, had a fair amount to say this session. The industry needs voices capable of stating its case and the political labels need not necessarily enter into it.

London County Council

Procedure with Planning Applications

AT THE MEETING of the London County Council on October 11 MR. ROBERT VIGARS asked the chairman of the Town Planning Committee in the latest period of twelve months for which figures were available —(i) How many planning applications for development were received by the Council; and (ii) how many of these applications were granted or rejected by (a) the Town Planning Committee; (b) panels of members of the Committee; and (c) the chairman, the vice-chairman, or an authorised member of the Committee.

MR. R. EDMONDS replied: 'It is not possible to give detailed figures without an examination of all reports but it may be said that applications received run at the rate of about 13,000 a year. After allowing for applications referred to borough councils or not proceeded with, some 10,000 a year go forward for decision. Just over 200 a year are dealt with by the committee. All other cases, other than of a minor routine nature, are normally referred to the panel and these amount to about 5,000. The rest are dealt with by chairman, vice-chairman or authorised member. Generally if there is a serious difference of views among members of the panel the matter is referred to the full committee.'

Houses without Baths

MARION LADY BENNETT asked the chairman of the Housing Committee how many houses and flats owned by the Council were still without baths.

MR. R. E. GOODWIN replied: 'Excluding general property purchased with a view to development of the sites, there are 6,189 dwellings without baths, comprised of 4,535 flats and 1,654 cottages; all these were built before 1919. There are also 712 dwellings in which baths are shared. Plans are in hand or under consideration for modernising all 6,189 dwellings.'

Two Exhibitions

Lady of Fashion ; Hospital Sanitary Appliances

THIS exhibition, at the Victoria and Albert Museum until December 4, is not only a visual *bonne bouche* but shares with the 'narrative' art of the period (roughly the first quarter of this century) the quality of reflecting its times in an almost literary sense.

The theme even contains a 'plot within a plot,' like the contemporary play or novel. The fashionable lady was Miss Heather Firbank (1888-1954), well-connected, beautiful and possessed of both wealth and taste—the latter, perhaps, more in the selective than the creative sense—and with a passionate interest in dress shared, incidentally, by her brother, Ronald Firbank the novelist. If this were not in itself a promising enough script, Miss Firbank (from some unexplained circumstances or eccentricity for which we are grateful) in 1921 had all her spare clothes packed in 24 trunks, to remain unopened for the following 35 years!

It is from this hoard (in the art-historical sense) that the display is selected. The clothes are virtually 'as minted'—striking tribute to her ladies' maid—and illustrate a period when English dress-designing as well as quality, was beginning to be taken seriously. At its beginning, when breeding and taste combined with purchasing power to call a tune very different from today's, the gulf between the elegant and the vulgar was immeasurable. But the selection represents the wearer's wardrobe between 1908 and 1921, and soon afterwards the decline of such standards, both socially and qualitatively, approximated the two into a blowsiness, and even tattiness, of which the potential seeds are detectable in some of the later dresses.

There is, I think, an architectural analogy—as simple illustrations, the typical Edwardian mansion or hotel, and their decline into the villa or pub where the removal of a rigid social background rendered them meaningless. But such misgivings are perhaps natural in a generation which has become reconciled to, and allows for, the debasement of all artistic currency. They need not blind one to the wit and skill with which Mr. Simon Fleet and the Museum staff have arranged the exhibition. Clothes for golf, the opera, garden-parties, motoring and so on are displayed in a 'sketched' and allusive décor, and the half-dozen changes appropriate to a normal day. These comprise some 22 complete outfits, and are supplemented by accessories, with photographs, bill-heads and other documentation completing the *mise-en-scène* for an epoch visibly drawing to a dramatic close.

However sociologists may deplore the limitation of its privileges to the few, the progressively 'higher standards of living' of the many have so far failed consistently to produce a comparable elegance.

Sanitary Appliances for Hospitals

The continuity as well as the cosiness of a family concern must be a considerable business asset. Unnecessarily to give it its full title, that of Messrs. W. N. Froy and Sons Ltd. is remarkable in that a firm which celebrated its centenary in 1950 has had only three 'governors,' and that in the direct line of descent. My own regard is admittedly tinged by memories of a large, kind man with a large keen knife, who gravely and meticulously cut lead strips for model boat-keels to the specification of a very small boy as long ago, I suppose, as the rebuilding after the fire of 1909 of the King-street, Hammersmith, premises. But I think that readiness to cater for special requirements, and a consistently sound design policy, have been increasingly appreciated by architects and builders. This gave particular interest to Froy's recent exhibition at the Building Centre of sanitary appliances for hospitals. Apart from intensely practical considerations—one cannot be slap-happy about slop-hoppers—no philistine can complain if the result 'looks like a hospital.'

The medical and nursing professions have an enviable way of getting the equipment they want: but in this case they are ably abetted, and though one used to believe that precise functional requirements produce good appearance, a good deal obviously lies between the cup and lip of specification and production. This, under an apparently empirical design policy using both staff and free-lance designers, has produced things like the 'Lynx' wc cistern, and the 'Apollo,' 'Ajax' and 'Athene' lavatory basins, not only sensible but of an almost sculptural quality quite up to Gio Ponti standards. They have influenced, if not led, design in the domestic market though primarily, I believe, evolved for institutional requirements.

This is largely because Froys have declined to be diverted by, for instance, the jazzy angularities of the 30s or the injudicious use of colour in appliances that are meant to be sanitary—and to look it. I was interested to learn, by the way, that the firm now sell a thousand bidets here where in the 30s they sold a bare dozen. This should at least help us to welcome Continental visitors with more confidence!

BASIL MARRIOTT.

The Institute of Builders

Inaugural Meeting of Midlands Branch

AT THE Grand Hotel, Birmingham, on October 7, a most successful start was made to the formation of the first Institute Branch when the inaugural meeting of the Midlands Branch was held.

A well attended and representative meeting was addressed both by the President of the Institute, MR. G. O. SWAYNE, OBE, who stressed in particular the need for employer members when recruiting staff to express a preference for those holding Institute qualifications, and by the Secretary of the Institute, MR. D. A. NEALE, MC, who gave a most purposeful talk on the aims and objectives underlying the recent reorganisation of the Institute's membership and examination structure.

The election of the branch officers and members of the branch committee resulted in the following appointments, which remain effective until December 31, 1961:

Officers.—Chairman, F. Russon; Vice-Chairman, J. A. Whittall, Hon. Treasurer, W. H. Taylor; Hon. Secretary, Ralph Peacock.

Branch Committee.—G. A. Mills, Bilston; N. S. Fitter, Birmingham; S. Lintern, Lichfield; C. Marjoram, Birmingham; B. W. Sapcote, Birmingham; G. Stubbings, Birmingham; W. H. Wilson, Coventry; E. Bampton, Birmingham; M. T. Barwick, Solihull; J. A. A. Sharp, Birmingham.

At the conclusion of the meeting the Branch Secretary gave details of a number of lectures already arranged for the current session, the first of which is to be held at the Grand Hotel, Birmingham, on Monday, October 31, when Mr. C. R. Miller, management consultant, is to speak on 'Management and Building in a Competitive World.'

The Midlands Branch is the first of a total of 23 branches which the Institute hopes to establish and covers the counties of Hereford, Shropshire, Stafford, Warwick and Worcester.

Advisers on Historic Buildings

Sir John Summerson Relieves PRIBA of Committee's Chairmanship

SIR WILLIAM HOLFORD has asked that while he is president of the Royal Institute of British Architects he should be relieved of the chairmanship of the Advisory Committee on Buildings of Special Architectural and Historic Interest. Mr. Brooke, Minister of Housing and Local Government, has agreed and has welcomed his offer to remain a member of the committee and give what assistance his other commitments permit.

Sir John Summerson has agreed to undertake the chairmanship during this period. Dr. N. Pevsner, Professor of History of Art at Birkbeck College, University of London, has been appointed an additional member of the committee.

Lord Euston, chairman of the Society for the Protection of Ancient Buildings, and Mr. W. A. Eden, the architect in charge of the Historic Buildings Section of the London County Council, have been re-appointed to the committee for three years.

Mr. J. D. K. Lloyd has had to decline re-appointment because of his heavy commitments in Wales, but has agreed to remain available for consultation.

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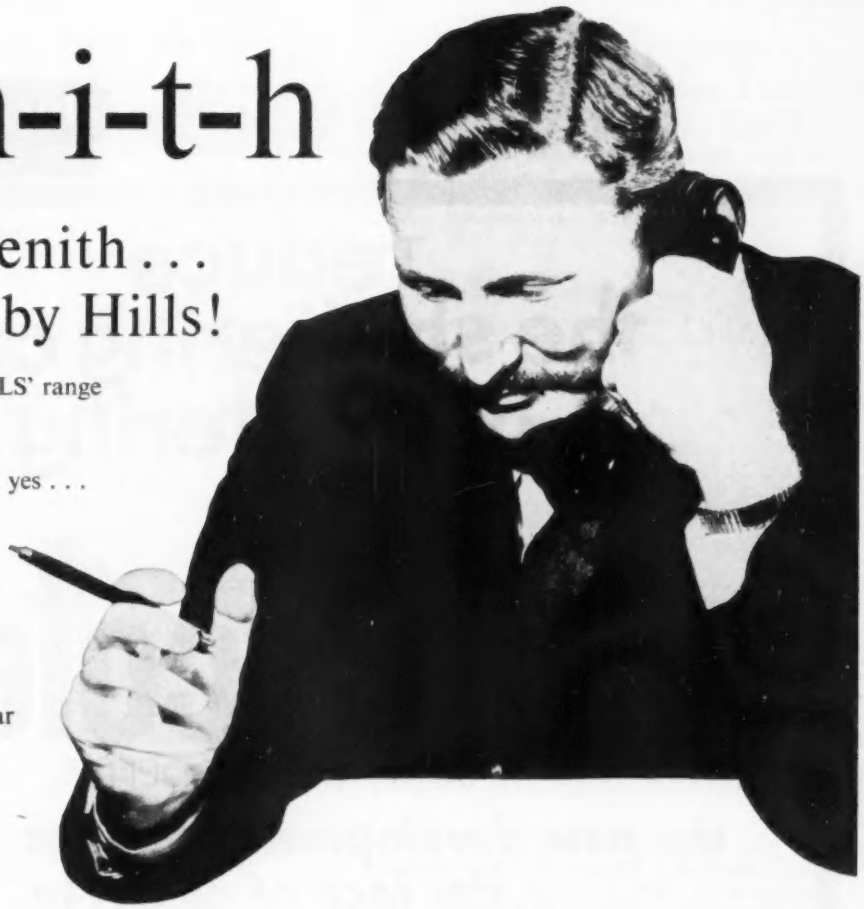

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Mr. Brooke Seeks Local Authorities' Views

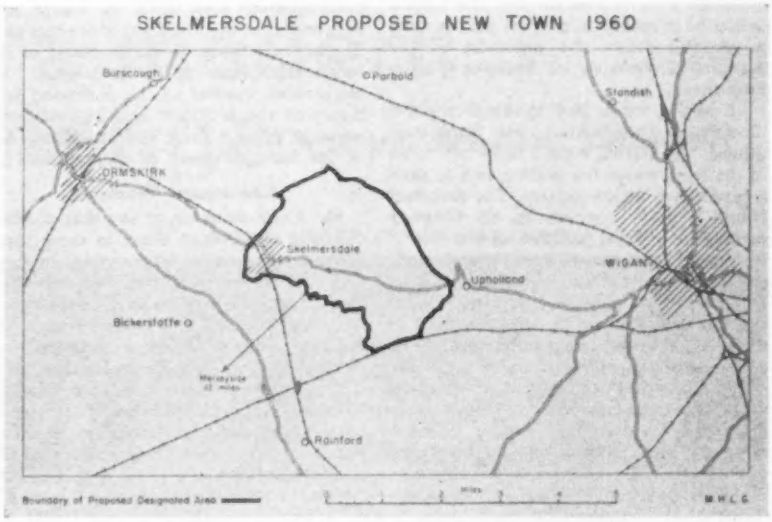
MR. HENRY BROOKE, Minister of Housing and Local Government, has consulted local authorities and certain statutory undertakers mainly affected by the Government's proposal to establish a New Town at Skelmersdale. He is required to do this as a preliminary step by the terms of section 1(1) of the New Towns Act, 1946.

The consultation has taken the form of a letter in which the Minister reviews the need for very large-scale development to meet Liverpool's problem. He points out that the City of Liverpool alone contains over 80,000 slum or near slum houses, and that densities in the city are such that many thousands of people will have to be rehoused elsewhere. Other authorities in North Merseyside also have an overspill problem. The Minister reminds local authorities of the need to restrict development on the edge of the built-up area, and acknowledges the great amount of work that has been put into town development schemes to cater for Liverpool overspill. Nonetheless, the scale and the urgency of the problem are such that he has decided to pursue a proposal, first put forward some years ago by Lancashire County Council, for a Government New Town.

He has sent local authorities a map showing the area he has provisionally in mind, and says that room could probably be found within it for some 80,000 people. He has asked for their comments on the proposal within two months.

The letter stresses that the aim will be to build up in the new town a balanced community with industry, shopping, public services, recreation and other amenities in accordance with modern standards.

When replies to the Minister's letter have been received, he will decide whether and in what form to proceed with the scheme. The next step would be the drafting of a designation order. This would be widely advertised, and an opportunity would be given to anyone affected to object to it. If objections were received, the Minister would hold a public local inquiry.



New Brickworks Opened by Minister

High Output Expected from Modern Methods

LORD JOHN HOPE, MP, the Minister of Works, speaking at the opening of Kibblesworth Brick Factory, Co. Durham, on October 13, said that people sometimes approached him and complained that they had difficulty in getting all the bricks they needed, but he did not forget to remind them that the production and deliveries of bricks had been running at record levels this year.

'Up to the end of August production was 4,819 m. and deliveries were 4,839 m..' the Minister declared. 'Both these figures are post-war records. Now the north-east of England is an area which has been an importer of bricks for many years. The opening of a new brickworks in the north-east which will produce 450,000 bricks a week is therefore a red letter day for a Minister of Works.'

Continuing, Lord John Hope said that the output of the building industry, which had been running at record levels, seemed unlikely to decline in the next 18 months. 'Indeed, the problem about which I am most concerned is the danger of overloading. The industry's output in the second quarter of 1960 (the last period for which figures are available) was 646 m. This was a post-war record and all the signs are that the output will continue to rise as fast as the capacity of the industry will allow. The only limitation I can see upon the market for bricks in the coming year is the capacity of the building industry to lay them.'

This new brickworks, he said, was technically of a very advanced design, and was expected to have an output of bricks per operative employed of 4,500 a month against a national average of a little under 2,000. Not only this but the working conditions were cleaner and the work less tiring. In our present economic situation it was a case of 'progress or die' and one of the things that progress meant was designing machinery which would save the necessity for dirty or unpleasant manual work. He said this with feeling because the problem which had worried him most in recent months in connection with brick supplies was the shortage of labour for brick making.

'There are some cases in which technical progress is not possible for one industry working by itself—co-operation is necessary,' the Minister added. 'There are two examples of this in which I am particularly interested. One is the packaging of bricks. This is only possible where a method of packaging satisfactory both to the brick maker and the builder is adopted, and both are equipped to handle packaged bricks so that the package can travel unbroken from the kiln to the bricklayer's hand. I know that many builders and many brick makers are studying this problem and I hope they will continue to do so energetically.

'The other technical development in which I am interested is the perforated brick. What we have here, I think, is a vicious circle. Brick makers are naturally reluctant to make perforated bricks, which might require the installation of comparatively expensive machinery, until they can see a market for them. Architects, on the other hand, are reluctant to specify them until they know they are available in sufficient quantities and of good quality. Nevertheless a few perforated bricks are in production, and I hope that architects and brick makers will find ways of co-operating with one another and with the builders to press forward this development which I am convinced will show great economies over traditional cavity walling.'

In conclusion he wished the Crossley Company, by whose enterprise the brickworks had been built, a successful and prosperous future.

Books Received

*** Books noted in these columns may be obtained on application to the Book Dept., 'The Builder,' 4 Catherine-street, Aldwych, WC2. Cash (to include postage on books to the value of 10s., 9d.; over 10s., 1s. 6d.) should accompany the order.*

THE MASTER BUILDERS. By Peter Blake. (London: Victor Gollancz Ltd.) Price 25s.

SPON'S ARCHITECTS' AND BUILDERS' PRICE BOOK, 1960-61. Edited by Davis, Belfield & Everest. (London: E. & F. N. Spon Ltd.) Price 35s.

London Master Builders Association

President's Suggestion for 'Get Together' of Architects, Surveyors and Builders

MR. E. J. COOK, President of the LMBA, speaking at a luncheon at Kensington of Central Area No. 1 on October 12, reminded his audience that he had recently said that perhaps the national bodies of the architects, surveyors and builders might get together to table their fears, problems and criticisms in broad terms, when he gave a promise that the LMBA would be prepared to play its part in such a meeting under the umbrella of the National Federation of Building Trades Employers.

'I would today like to develop these thoughts a little further,' Mr. Cook continued, 'by stating what I think are some of the fears which the participants to such a conference might express. The architect would express concern at his ultimate survival in private practice as a result of the greatly increased architectural staffs employed by local authorities and others. He would probably be concerned about the continuity of work available and at the trend of some larger building firms to employ their own design staffs.

'The quantity surveyor might also be afraid of his gradual removal from private practice as a result of greater employment by local authorities; he might be concerned at the number of projects now being carried out without bills of quantities and he might wonder whether the builder wishes to see the employment of bills of quantities gradually eliminated. He might say that he is making his service more attractive by the employment of "cost control."

'The builder would be worried about the difficulty of maintaining a reasonable constancy of work load, he would also be worried at the low level of tenders and, like his colleagues, would be afraid of the increasing threat of direct labour. He might also wonder at the increased tendency of the architect and quantity surveyor to protect the client at the expense of the fair treatment of the builder.'

Educational Problems

Mr. Cook went on to sav that another difficulty with which those in these three spheres of activity were trying to cope was the watertight education of their staffs. Much could be achieved in better understanding if the architect and the quantity surveyor were required to include in their training a period of practical experience with a contractor, and likewise much benefit would accrue if building management trainees spent a period of service with an architect and a quantity surveyor.

'May I point out a paradox? Is it not strange that our fears of the threat of local authority and other direct labour activities arise during a period of government by a party which has expressed its support for private enterprise? When one considers that at the present time around a quarter of the labour employed in the construction industry is in the employ of direct labour departments, are we not entitled to question whether the government of today is really supporting private enterprise—one of the strongest timbers in its election platform?'

The President added that there was much talk of leadership in the building team. Leaders emerged naturally from any group rather as oil rises in water and generally as unobtrusively. 'We must accept that in these days of rapid progress and development. Leadership must be by example—not by inheritance.

'There are many signs that organisations are restlessly pursuing the discovery of a system which would eliminate many of the weaknesses that exist today. They are evidently prepared to set out and go it alone unless, by facing up to the basic fears and subsequently to the detailed problems and criticisms that exist, we are going to ensure that common sense will be allowed to prevail in these vital relationships.'

Electrical Engineers and Exports

Australian High Commissioner on Importance of Keeping Delivery Dates

SPEAKING IN LONDON on October 13 at a dinner to launch the 10th Electrical Engineers' Exhibition, SIR ERIC HARRISON, the High Commissioner for Australia, told the large number of electrical engineers, manufacturers and exhibitors present of the dangers of exceeding delivery dates, and of the increasingly serious problems it was causing Australian development. Many schemes were being held up in Australia because of British manufacturers' apathy towards keeping delivery dates. He warned them of competition from the Continent. European countries were not only delivering goods in time, but were, in many instances, months ahead. He cited the £400m. Snowy Mountains hydro-electric project as one such case where manufacturers had overstepped their delivery deadline; the project was being seriously jeopardised by late delivery of main power generating plant and equipment.

'In one instance the delay on the project was as much as 18 months,' said Sir Eric, 'we don't want the project to be held up because of delay in the supply of ordered equipment.

'Tenders are being invited for the main power plant for the next major power station of 760 kilowatt capacity,' he added. 'I therefore submit that British manufacturers must demonstrate the practicability of achieving dates of delivery, if they wish to obtain these contracts.'

Sir Eric then asked why it was that British civil engineering firms did not tender more often for large contracts abroad, especially in Australia. 'What we in Australia cannot understand is the failure of your civil engineers to tender for contracts running into millions of pounds. In a recent contract there was only one British tender received. The contract eventually went to the United States and the Continent. Tenders from Britain would be an encouraging sign that you are at least interested in our development,' he said. 'It is rather strange that we have to plead for your interest in the development of this great Commonwealth country.'

Concluding, he urged the training of more scientists and electrical engineers in the Western Hemisphere, and particularly in Britain, if we were to catch up with Russia. 'This is one race we cannot afford to lose,' said Sir Eric.

Another speaker, MR. R. F. MATHIESON, AIEE, spoke of the need in Great Britain for a new and better exhibition hall. None of the existing halls, according to Mr. Mathieson, was up to international standard. A new hall was a 'must' for this country, and this was a problem which needed Government attention.

The exhibition will be held at Earls Court, London, from March 21-25, and is sponsored by the Association of Supervising Electrical Engineers.

Official Notification

Fire Fighting in Factories

OWNERS AND OCCUPIERS of more than 220,000 factories in Great Britain subject to the Factories Acts will have to provide adequate fire fighting equipment from December 1, next. This is one effect of an Order*, made by Mr. John Hare, Minister of Labour, and published on October 11, bringing the fire provisions of the Factories Act, 1959 into operation on that day.

The Order will also bring into force a provision requiring fire alarms to be installed in about 10,000 more factories than are at present required to have them, and for the testing and examination of these alarms periodically—normally at least once every three months.

Other important provisions of the Act which will become effective are those transferring from district councils to fire authorities the duty of ensuring that certain factories have adequate means of escape, and empowering fire brigade officers to enter factories when authorised by a factory inspector, for the purpose of assisting the inspector on fire matters, and enabling the Minister of Labour to make regulations about fire prevention and fire fighting.

* Factories Act, 1959 (Commencement No. 4) Order, SI 1960, No. 1839 (C.17) HMSO, price 2d. net.

Influenza Linked with Road Deaths

MONTHS OF RESEARCH by a team of investigators has convinced the British Safety Council that there is a direct link between influenza and accidents. In a report published from 60 Westbourne-grove, W2, the Council calls for mass vaccination in industry and among road users.

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Book Reviews

What to See in a Country Church; Decoration and Furnishing; Quantities and Estimating for Building Technicians; Hutchins' Priced Schedules

WHAT TO SEE IN A COUNTRY CHURCH. By Lawrence E. Jones. (London: Phoenix House Ltd.) Price 10s. 6d.

IT IS PROBABLY true to say that the word 'architecture' conjures up in the minds of most laymen buildings of a bygone era; great country houses, impressive municipal monuments, medieval castles, cathedrals, and above all, country churches. Even the most philistine among us, and more especially if we dwell in large towns and cities, will find much of enjoyment in the churches that abound in the English countryside. England possesses some of the most beautiful examples of this form of ecclesiastical architecture: much has been written about it and, indeed, in most parish churches one can purchase descriptive brochures.

The English church is its finest art gallery and in this very inexpensive guide to country churches the author has produced what may be described as a study tour of some 140 of them with, admirably, a minimum of explanatory text. Some cathedrals are included.

It is essentially a pictorial guide and in answer to the question, 'What to See in a Country Church,' Mr. Jones approaches first the overall visual aspect, the structure and the style of architecture which suggests its history and acts as a pointer to local characteristics. This accomplished there follows a description of detail, windows, porches and doors, spires and towers, tracery and sculptural ornament. The author then takes us inside to reveal the roofs, tie-beam, arch-bracer, hammer-beam, barrel-vault and the lovely and intricate fan tracery of the Perpendicular. He shows us religious and secular statuary, altar screens and reredos, fonts, pulpits and lecterns (the most hideous of all church ornaments), carved benches, and wall paintings. The volume is lavishly illustrated with half-tones and colour plates which alone are a joy to browse through.

There is something tremendously impressive about an English country church and one of the loveliest features is the predominance of the open timber roof, of which the late Talbot Hamlin, the American architectural critic, once wrote: '. . . the combination of the naked, all apparent strength of the supports with the richness of light and shade of their criss-crossing, complex yet systematic, in the shadows above, is well nigh irresistible.' Such experiences can be tasted in generous measure in English churches and it is pleasing to note that this aspect is well covered by Mr. Jones, who illustrates one of the most beautiful examples of double hammer-beam of the 15th century, that at Woolpit church in Suffolk.

Thorough first hand enjoyment of church art requires effort and time, but if one is prepared to make the effort and spare the time the result is infinitely worthwhile. Lawrence Jones provides the background, the traveller must do the rest.

The value of this book would have been greatly enhanced by the addition of an index for quick reference to the text and pictures. A map, which purports to give the location of churches described with numerical reference to the text, is totally inadequate unless one is above average at geography. This suggestion might be considered for future editions, which it is hoped will be forthcoming.

DECORATION AND FURNISHING. By John Wilson. (London: Batsford Books Ltd.) Price 63s. net.

VOLUME UPON VOLUME has been written on the subject of decorating and the many aspects of that most abused and fascinating art. These range from the factual, practical, matter-of-fact, do-it-yourself, to the glossy highly qualified and competent kind. Very few are as comprehensive as this one, complete in technical detail and illustrated with a profusion of drawings, diagrams, photographs and tables.

Mr. Wilson is a professional who served a practical apprenticeship in painting and decorating and has now graduated to university lecturer and designer. He has written for the present and future professional members of the decorating and furnishing trades, and the result is a mixture of the good taste of the successful designer and the practical experience and guile of the humble house-painter or wallpaper-hanger.

This excellent textbook and work of reference covers the principles and planning of decoration with particular reference to preparation, choice of scheme, colour, type of paint and wallpaper. It deals in detail with wall and ceiling materials, glass, flooring, furniture, textiles and lighting. There is no theorising or useless impractical suggestion; the author deals with procedure and practice with a completeness and a dexterity that are refreshing. This book is not for the do-it-yourself addict, it is professional advice to professionals.

QUANTITIES AND ESTIMATING FOR BUILDING TECHNICIANS. By John F. L. D'Este. Part IV, Plumbing. (London: E. & F. N. Spon Ltd.) Price 15s. net.

THE PREPARATION of bills of quantities and the making of estimates are essential functions in building and the importance of their accuracy and of their realistic interpretation of the architect's design cannot be overestimated. Accurate and realistic estimates provide security for owner, architect and contractor alike. Apart from thorough knowledge of estimating procedure, it is also essential to possess or be able to refer to detailed information about materials, labour and techniques of each craft or trade. A series of textbooks on quantity measurement and estimating procedure individually related to a particular craft or trade is therefore an invaluable addition to the multitudes of technical information available.

This volume is the fourth in a series by Mr. D'Este and deals specifically with plumbing. In it the author provides a broad review of all aspects of construction related to this trade as well as detailed reference to labour and other matters not dealt with in ordinary building construction textbooks. Aside from its obvious value to the technician and the professional man, it also enables the student to study in detail items of work directly concerned with the branch in which he hopes to, or is already specialising. As the author points out, the syllabuses for examinations in craft subjects held by the City and Guilds of London Institute includes measurement of items related to the trade which may be far removed from those dealt with in a general book of quantities.

Such an approach helps towards full understanding of the Standard Method of Measurement, although the present volume falls somewhat short of the mark because it does not cover the entire scope of each trade. Aspects relative to costing and valuation are, however, included, and a section on facts governing the material and labour values to be applied is excellent. A useful list of abbreviations is given in an appendix and the volume is adequately indexed.

HUTCHINS' PRICED SCHEDULES (16TH EDITION). Compiled by Thos. V. Hutchins. (London: G. H. Lake & Co. Ltd.) Price 70s.

THERE IS very little more to say about Thos. Hutchins' Priced Schedules that hasn't already been said. It has become a 'must' for estimators and others concerned with this aspect of building administration. The 16th edition has been issued in the now familiar black bound cover. In his Foreword, the compiler says that annual sales are 'very gratifying,' and as such are a tribute to the usefulness of these documents. He also mentions, an interesting point this, the standard of living and its reflection on increased amenities and labour-saving installations in houses, saying that these 'will gradually oust from its pedestal the deity of Cost which has hitherto been not only the prime consideration but the all-powerful factor.' Reading this, and other things, in Mr. Hutchins' Foreword, one is apt to be infected by the optimism which he has for the building industry's future.

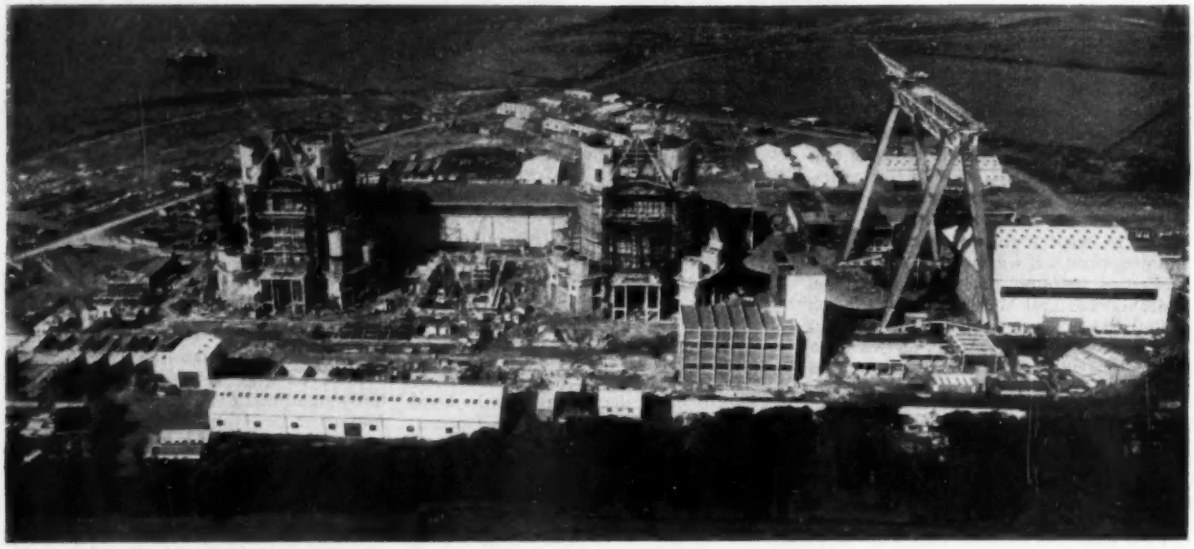
The book itself varies little from previous editions; divided into nine sections, it deals with everything from bricklaying and plastering to public works. Some unit prices, however, have not been altered from the previous edition. This is due to such factors as improved or modified tools, or execution technique, better skill, speed, and (in a few cases) slightly decreased cost of material.

A.D.

*** Books noted in these columns may be obtained on application to the Book Dept., 'The Builder,' 4 Catherine-street, Aldwych, WC2. Cash (to include postage on books to the value of 10s., 9d.; over 10s., 1s. 6d.) should accompany the order.*

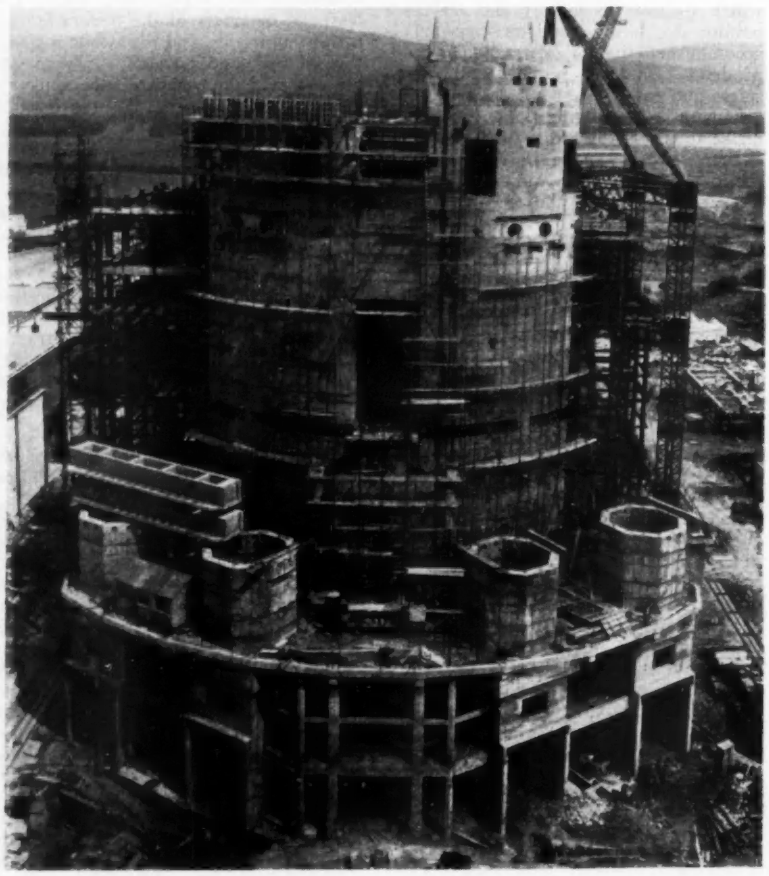
Hunterston Nuclear Generating Station

Some Progress Notes



An aerial view of the generating station

The plinths of the steam-raising units of Reactor 'B'



THE MAJOR PORTION of the civil engineering work on the two reactor structures and the turbine hall of the £40m. Hunterston nuclear generating station has now been completed, and the various subsidiary buildings are taking shape. The station, which is situated on the Ayrshire coast, some 35 miles south-west of Glasgow, is being built for the South of Scotland Electricity Board. The first reactor will be ready for the winter of 1962/63 and the second for the autumn of 1963.

Since work restarted in January production has been maintained; inside the first reactor structure, for example, the assembly of the 3 in. thick, 70 ft. diameter pressure vessel is complete, all courses having been placed and welded together, with the core support grid and inner heat shield located inside the vessel. The vessel is now being prepared for stress-relief. The supporting skirt of the second reactor pressure vessel has been fabricated 'in situ' inside the biological shield and the combined bottom head and support course and No. 2 course have been lifted into position.

Elsewhere on the site, fabrication and assembly of the steam-raising units has been going ahead; several of the 210-ton vessels having been stress-relieved and hydraulically tested are now in the final stages of construction, which includes nuclear clean conditioning. The first steam-raising unit associated with the first reactor was lifted on to its plinth on September 15.

Externally, the 680 ft. long turbine hall appears complete, although internally

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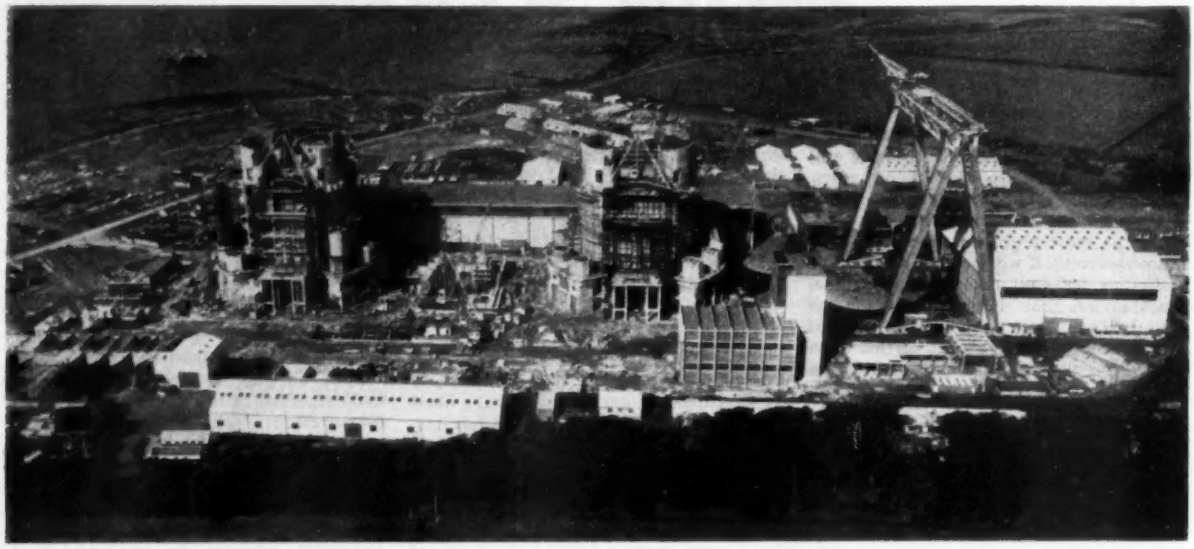
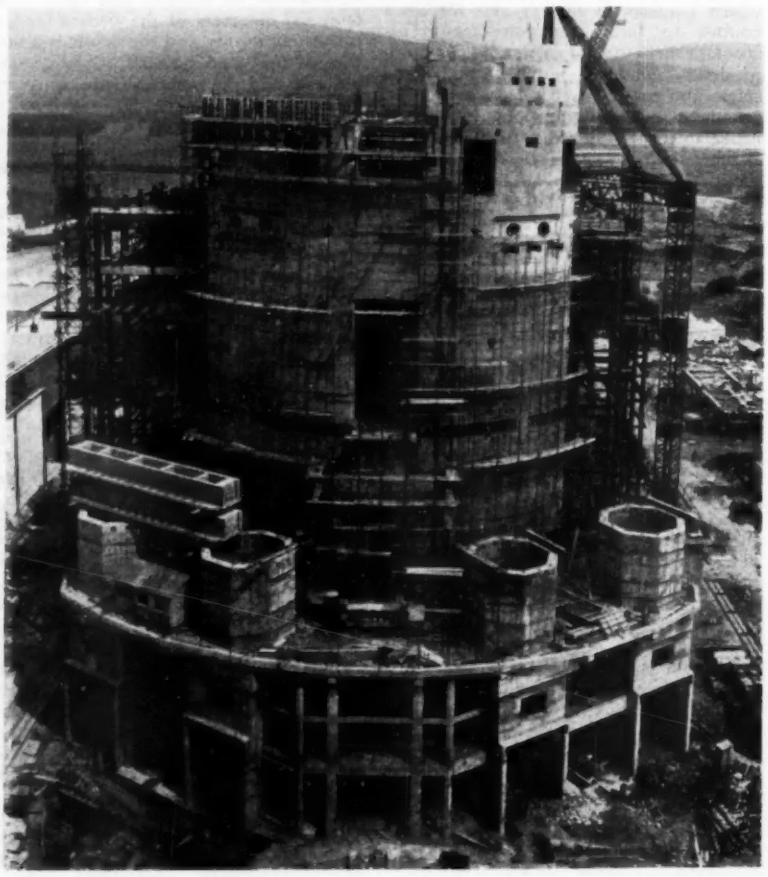
Hunterston Nuclear Generating Station

Some Progress Notes



An aerial view of the generating station

The plinths of the steam-raising units of Reactor 'B'



THE MAJOR PORTION of the civil engineering work on the two reactor structures and the turbine hall of the £40m. Hunterston nuclear generating station has now been completed, and the various subsidiary buildings are taking shape. The station, which is situated on the Ayrshire coast, some 35 miles south-west of Glasgow, is being built for the South of Scotland Electricity Board. The first reactor will be ready for the winter of 1962/63 and the second for the autumn of 1963.

Since work restarted in January production has been maintained; inside the first reactor structure, for example, the assembly of the 3 in. thick, 70 ft. diameter pressure vessel is complete, all courses having been placed and welded together, with the core support grid and inner heat shield located inside the vessel. The vessel is now being prepared for stress-relief. The supporting skirt of the second reactor pressure vessel has been fabricated 'in situ' inside the biological shield and the combined bottom head and support course and No. 2 course have been lifted into position.

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Design in the Library

A Useful Booklet

THE PAPERS read at the week-end conference of the London and Home Counties Branch of the Library Association, held at Margate from April 29 to May 1 this year, have now been published in booklet form under the editorship of Mr. K. M. Newbury, FIA, chief librarian Coulsdon and Purley (The Library Association, Central Library, Penge, price 6s.). Two papers of special interest to architects are included—'Heating and Lighting, Furniture and Equipment,' by Edward J. Mold, AADipl, ARIBA, MSIA, of Messrs. Scott, Brownrigg and Turner, and 'Presentation of Material,' by David Rock, BArch, ARIBA, of Messrs. Grenfell Baines and Hargreaves.

In his introductory remarks MR. MOLD rejects the idea that 'libraries should be the Cinderella of building, outwardly clothed in rags yet inwardly richly clothed with books for which the building is itself no more than a shell to keep the weather out. A library should be inviting and state with conviction that reading is a pleasure.'

He proceeds to discuss the different forms of heating and their advantages and disadvantages, and particularly commends floor-warming or underfloor heating, which does not take away any wall space but releases all that is available for more sensible use. With floor and wall surfaces unobstructed, complete flexibility in the arrangement of storage equipment is possible.

On the question of artificial lighting, Mr. Mold suggests that light fittings can now be effectively situated at ceiling level rather than just above the head for reading purposes, and he discusses the possibilities of luminous ceilings, and also the question of efficient daylighting. The concluding part of his paper offers some excellent advice on furnishing and equipment.

MR. DAVID ROCK, in his paper on 'Presentation of Material,' emphasises that the internal design of a library is not simply a matter of designing a nice room or series of rooms and then thinking of filling them with some form of shelving. Atmosphere and character are vitally important. Generally he believes in going for simple surroundings and breadth of treatment, to try to achieve the feeling of leisure and restraint.

Turning to details, the author proceeds to discuss shelves and shelving bays, the question of variety in appearance, flexibility, space-saving, types of shelving, colour lighting, lettering, comfort, sound and smell, other departments, and special displays. Generally, he concludes that a balance must be struck somewhere between the best of the modern bookshops and the Dickensian fustiness and character of the traditional Charing Cross-road bookseller. 'All design of the library should be "of one mind" and be consistent and designed as one, rather than as a shell with furniture inside somewhere.'

The other papers in the booklet are as follows: 'EKZ: A Purchasing Centre for Libraries,' by Horst Ernestus Deutscher Büchereiverbund; 'Building Layout,' by Sven Plovgaard, inspector, Danish Library Inspectorate; and 'The Public Library in a Changing Society,' by Alderman Sydney Irving, BSc(Econ), MP, chairman, Dartford Libraries and Museums Committee. Three pages of photographs of examples of library furniture designed, manufactured and sold by EKZ are included.

Companies and Ultra Vires

Action Brought for Breach of Contract

From a Legal Correspondent

A CASE OF CONSIDERABLE interest to builders and contractors was recently decided and is reported as *Anglo Overseas Agencies Ltd. v Green*. The plaintiff company brought an action for damages against an architect and a firm of estate agents for conspiracy and breach of contract. The company, who stated in their statement of claim that they were property developers, said that the defendants were in breach of agreement in assisting them to obtain, from Merton and Morden Urban District Council, a building lease of a valuable site in a key position in the Morden shopping centre.

In defending themselves the defendants took the initial point that the company were not property developers and were acting outside their powers ('ultra vires') having regard to the objects for which they were established. This led to examination of the Memorandum of Association and consideration of important legal cases namely *Stephens v Mysore Reefs (Kangundy) Mining Co. Ltd.* and *Cotman v Brougham*.

The Act did not decide on the important question whether the earlier case was overruled by the latter. Mr. Justice Salmon found on the facts that although the principal objects of the company, as contained in Paragraphs A and B of clause 3 of the Memorandum of Association, were as importers and exporters of a wide variety of goods, a subsequent provision of the section was sufficient to permit the company to carry on property development. This stated that: 'The intention is that the objects specified in any paragraph of this clause shall, except where otherwise expressed in such paragraph, be in nowise limited or restricted by reference to or inference from the terms of any other paragraph, or the name of the company.'

This clause had to be read in conjunction with Paragraph E which reads as follows: 'To . . . acquire any concession, contract, rights . . . and to perform and fulfil the terms and conditions thereof, and to carry the same into effect, operate thereunder, develop and turn to account, maintain and sell, dispose of and deal with the same.' So far as the relationship between the two cases (supra) were concerned all he could say was that, 'Had it been the intention of the House of Lords to overrule the *Stephens v Mysore Reefs* case, it is strange that it did not expressly do so.'

The point of the case appears to be this. Companies which are carrying out development must be sure that the power to carry out development is contained in their Memorandum of Association and is sufficiently clear not to be questioned.

Recent British Trade Marks

THE FOLLOWING PARTICULARS, which are extracted from the 'Trade Marks Journal,' are reproduced with permission of HM Stationery Office. The 'Trade Marks Journal' may be obtained from the Patent Office, annual subscription £5.

GLORIA: 804635. Paints, distempers, varnishes, laquers, etc. Allen Walters & Co. Ltd., 6a St. John-hill, London, SW11.

FIBRON: 790203. Non-metallic flooring materials. Ronuk Ltd., Portslade, Sussex.

PAN SECTA: B801487. Timber fencing. Alexander Cowie & Co. Ltd., Markeaton Mills, Leaper-street, Derby.

PORTACRYL: 801864. Enamels containing acrylic resins. S. E. Porter & Sons Ltd., Argall-avenue, Lea Bridge Estate, E10.

PLASFORM: 804523. Moulds and shuttering all made of plastics for use in building operations in enclosing concrete during the process of consolidation; finishes and facings all made of plastics and for use in concrete construction. Courtney Pope (Electrical) Ltd., 341 Seven Sisters-road, N15.

EPILINE: 798615. Paints, varnishes, painters' colours, distempers, japans, lacquers, etc. Coates Brothers Paints Ltd., Easton-street, London, WC1.

COMOR: B793268. Buildings and parts thereof, all included in class 19. Vono Ltd., Dudley Port, Tipton, Staffs.

PLYGLASS: B799356. Units consisting of two or more panes of glass enclosing hermetically sealed cavities and being for use in the building industry. Plyglass Ltd., Intermediate Factory No. 3, Edinburgh-place, Harlow, Essex.

PANELLASTIC: 801018. Building panels (not of metal). Panelastic Construction Ltd., 78 Victoria-road, Surbiton, Surrey.

SCREEDEX: 801769. Non-metallic materials included in class 19 for use in surfacing walls, ceilings, floors and similar surfaces. Chemical Building Products Ltd., Warple Works, Cleveland-road, Hemel Hempstead, Herts.

GIBSET: 803338. Cement included in class 19. Gibbons (Dudley) Ltd., Dibdale Works, Lower Gornal, near Dudley, Worcs.

DOMOCRIL: 797570. Paints, varnishes, lacquers, etc. The British Domolac Co. Ltd., 81 Harrow Manorway, London, SE2.

CO-SEAL: B799902. Coating preparations (in the nature of paint) made of plastics for use in sealing floor surfaces. Stewart Wales Somerville Ltd., 99 Brownside-road, Cambuslang, Lanarkshire.

POLYMARK: 800573. Paints, varnishes, distempers, japans, lacquers, etc. Corrosion Ltd., Warsash-road, Warsash, Hants.

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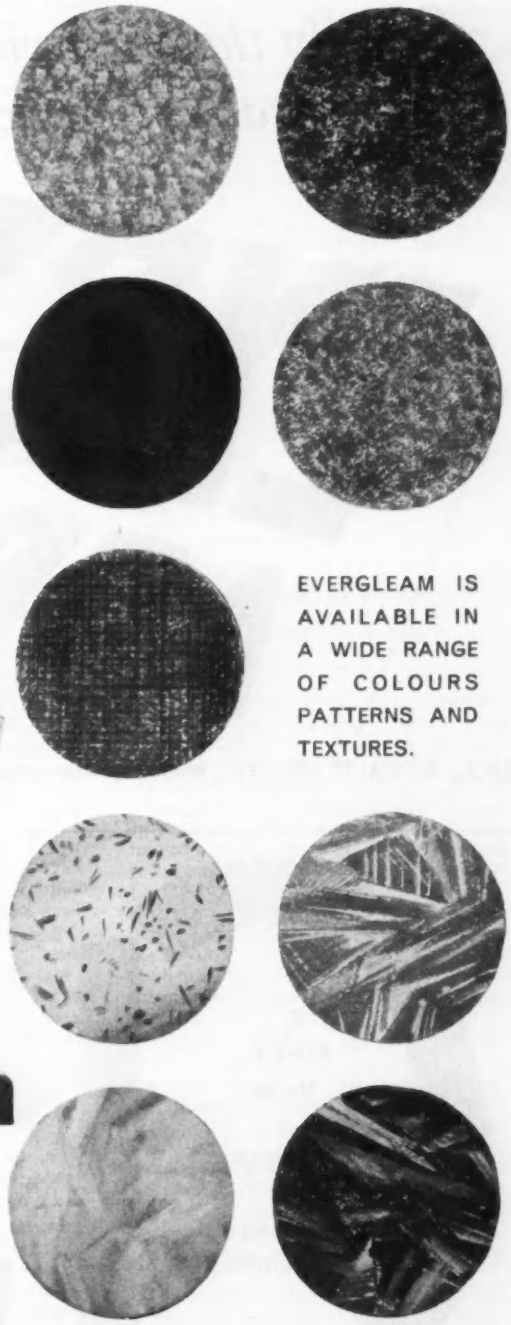

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Architectural Research in South Africa

The Development of an Institute

WHEN THE NATIONAL BUILDING RESEARCH INSTITUTE of the Council for Scientific and Industrial research was established in South Africa in 1946 it contained a section called Architecture and Building. This had no established or defined methods of tackling architectural problems and hence architectural research. It is not surprising, therefore, that it has changed both in name and function; to-day, the Architectural Division undertakes architectural research, which can be briefly defined as the endeavour to establish facts by scientific methods and thus enable the architect to plan valid buildings.

In connection with a recent exhibition of the NBRI a brochure was produced which gives brief accounts of some twelve projects of the Architectural Division. It is pointed out that since architecture is so interwoven with the fabric of society, each undertaking involved many aspects related to the main objective of building research and required the co-operation of scientists quite unconnected with architectural work. Generally the work undertaken is of a long-term nature and organised as programmed research—that is, it is planned to incorporate a number of related studies within the overall concept.

Thus a system of teamwork was brought into existence, and persons of various disciplines came together to form a group which could solve achitectural problems. The application of this approach is described in some general notes on the following typical research projects:

1. Bantu Housing—1946-1956. Sponsored by the National Housing Commission and the CSIR.

3. Socio-economic Studies—1950.* Sponsored by the National Council for Social Research, the National Housing Commission and the CSIR.

4. Tuberculosis Settlements—1951-1954. Sponsored by the CSIR.

5. Bantu Primary Schools—1952-1955. Requested by the Department of Native Affairs, sponsored by the CSIR.

6. School Buildings Research—1953.* Sponsored by the Provincial Administrations of the Union and the CSIR.

7. School Furniture—1954.* Sponsored by the Transvaal Provincial Administration and the CSIR.

8. Nursery School buildings—1958-1960. Sponsored by the CSIR.

9. Low Cost Housing for Europeans—1955.* Sponsored by the National Housing Commission and the CSIR.

10. Indian and Coloured Housing—1959.* Sponsored by the National Housing Commission and the CSIR.

10. Housing for the Aged—1958.* Sponsored by the National Housing Commission and the CSIR.

11. Hospital Buildings Research—1955.* Sponsored by the Union Department of Health, the four Provincial Administrations and the CSIR.

12. Polyclinics—1956.* Sponsored by the Union Department of Health, the four Provincial Administrations and the CSIR.

* *Denotes that work is still continuing.*

The brochure concludes with a list of publications by members of the staff of the Architectural Division and of publications to which members of staff made a substantial contribution, on housing, school buildings, and hospitals. The brochure, B5, is published by the South African Council for Scientific and Industrial Research, PO Box 395, Pretoria.

London's Water Supplies

4¾ Mile Tunnel Will Provide New Link

From a Correspondent

ANOTHER IMPORTANT LINK in London's 'water grid' will be completed during 1962. Already the Chingford reservoirs have been connected with the Thames by a 19-mile raw water tunnel beneath London.

Now a 4¾-mile tunnel over 8 ft. in diameter is to be driven 150 ft. below ground level between Staines and Hanworth, in Middlesex, so that the Kempton Park and Hampton works and also the filtration works at Ashford Common can be supplied with additional water from the Staines and Queen Mary reservoirs. The latest tunnelling techniques evolved by British civil engineers will be employed. Edmund Nuttall, Sons and Co. (London), Ltd., who have been awarded the contract for this work, expect to complete over 300 ft. of finished tunnel per week so that the tunnel should be ready for use by the end of 1962. A mechanical digger shield of the latest drum type will be used to drive the tunnel.

Mr. W. M. Lloyd Roberts, MICE, Chief Engineer of the Metropolitan Water Board, who is responsible for the design and supervision of the work, has selected the use of wedge block pre-cast segments for the lining of the tunnel. This method of lining saves time and money compared with the traditional steel linings. Twelve concrete segments, including the wedge block which is driven in longitudinally at the crown of the tunnel, form a complete ring. These segments weigh less than 3 cwt. each and can be rapidly assembled by hand. The contractors are erecting a special factory at the site equipped with the necessary heating arrangements for rapid curing to manufacture the 150,000 segments that will be required.

Uncovered Electrical Socket

Occupier or Builder Responsible for Fatal Accident?

FOR FAILING to cover the conductor of an electrical socket outlet, Messrs. Y. J. Lovell and Son, Ltd., builders and contractors, of the Bishopric, Horsham, were fined £25, with £4 costs, at Brighton Magistrates' Court recently.

The case arose out of the death of a 52-year-old labourer employed by the firm while working at the Brighton Equitable Co-operative Society's store in London-road, Brighton. He touched the socket and was killed.

For the firm, Mr. D. J. Trenner claimed that the summons should have been brought against the Co-operative Society and not against the defendants. The latter were not the occupiers, said Mr. Trenner; therefore, the wrong party had been prosecuted. The switch-box was the Society's property and had been previously used by their employees.

Injunction to Prevent Damage to a Flat

From a Legal Correspondent

IN a recent application in the Chancery Division of the Vacation Court ('The Times,' August 19) reported as *Boynton v Helena Rubinstein Ltd. and Another*, Mr. Justice Buckley granted the plaintiff—the owner of a Knightsbridge flat—an injunction against a firm of building contractors. The terms of the injunction restrained them from operating a hoist at premises 247-249 Knightsbridge except between 9 a.m. and 6 p.m. and ordered that the engine must be turned off when the hoist was not in use and the brake mechanism so operated as to cause the reasonable minimum of noise and vibration.

No order was made against the owner of the premises. The owners occupied the two top floors of the premises and the plaintiff occupied a ground floor flat. The plaintiff complained of dust and dirt entering his flat which required a lot of cleaning and of the noise from the electric motor, which was audible when the windows were closed, and that building materials placed in the courtyard interfered with his use of it.

The learned judge took the view that as only one complaint had been made to the foreman and that as the damage was done to the interior of the flat no further relief should be given in this connection, but as the builders were open to criticism in the use of the hoist an injunction would be granted with costs.

In an action by another flat owner against the same defendants, *Goldie v Helena Rubinstein Ltd. and Another*, no injunction was granted as the inconvenience suffered was not beyond that reasonably associated with work of this kind, and because all reasonable precautions had been taken by the contractors to avoid causing inconvenience to the plaintiff.

THE BUILDER CURRENT PRICES

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. It is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

		£	s.	d.
Pit Ballast	per yd.	1	5	5
Pit Sand	,,	1	3	8
Washed Sand	,,	1	6	9
⅜ in. Shingle	,,	1	4	3
¾ in. Broken Brick	,,	1	0	9
Pan Breeze	,,	1	0	6
Fine or Coarse Foamed Slag Aggregate	per ton	3	8	0

2 yds. of fine and 2.6 yds. of coarse per ton.

CEMENT, etc.

Including non-returnable jute sacks or paper bags.

		£	s.	d.
Best British Portland Cement. Standard Specification delivered Charing Cross area.				
6-ton loads and upwards, site	per ton	5	10	0
1 to 6 tons, site	,,	6	2	0
Rapid-Hardening Cement in 6-ton loads and upwards to site	,,	6	0	6
1 to 6 tons do. site	,,	6	12	6
Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.				
Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices.				
Red, Buff or Khaki Colocrete in 6-ton lots	,,	8	10	0
Other colours according to colour. In 4-ton lots from 308s. 0d. to 778s. 0d. per ton.				
White Portland Cement	,,	13	15	6
Under 1 ton	per cwt.		16	9
417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards	per ton	7	2	6
Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.				
Cullamix Tyrolean Finish, £11 8s. 0d. to £14 3s. 0d. (1-ton loads and upwards.)				
Lightning and Ciment Fondu Brands High Aluminous cement, 6-ton lots and up	,,	15	14	6
Stourbridge Fireclay, 6-ton loads at Railway Depot, London	,,	6	19	0
Stourbridge Fireclay, 6-ton loads (London sites)	,,	7	7	0
Moler Mortar Powder for Flue Bricks (London sites)	per cwt.	1	10	0

BRICKS

Full Loads.

		£	s.	d.
First Hard Stocks	per 1,000	15	19	6
Second Hard Stocks	,,	14	3	6
Mild Stocks (Kiln Burnt)	,,	10	5	0
Mild Stocks	,,	10	0	0
All loaded free into lorry at the works. The question of haulage is still very difficult and prices must be obtained from job to job.				
2½ in. Nominal Fletton Bricks to sites in W.C. district :				
Commons	,,	6	2	0
Cellular Commons	,,	6	2	0
Keyed do.	,,	6	4	0
Rustics	,,	8	2	0
Cellular Rustics	,,	8	2	0
Single Bullnose Commons	,,	8	4	6
Sandfaced	,,	9	2	0
Tuscans	,,	9	17	0
Saxons	,,	10	5	0
Golden Buffs	,,	10	12	0
Dapple Light Facings	,,	10	19	6
Heather Facings	,,	10	15	0
Best Blue Pressed Staffs (London stations)	,,	30	2	6
do. do. (London sites)	,,	32	1	0
do. Bullnose (London stations)	,,	31	11	6
do. do. (London sites)	,,	33	0	0
Blue Wire Cuts (London stations)	,,	27	5	0
do. do. (London sites)	,,	28	7	6
Midhurst Lime Bricks (London sites)	,,	11	0	6
Uxbridge Whites (London sites)	,,	11	1	0
Special Purpose Sandlime Bricks (London sites)	,,	8	12	0
Best Stourbridge Fire Bricks :				
2½ in. (London stations)	,,	30	12	3
2½ in. (London sites)	,,	31	1	0
3 in. (London stations)	per 1,000	36	14	9
3 in. (London sites)	,,	37	5	3
2½ in. Moler Flue Bricks (London sites)	,,	31	10	0
2½ in. Machine-made Sandfaced Red Facings (London sites)	,,	17	11	6
2½ in. Machine-made Multi Red Facings (London sites)	,,	17	16	6
2½ in. Hand-made Sandfaced Red Facings (London sites)	,,	19	15	0
2½ in. Hand-made Sandfaced Multi-Colour Facings (London sites)	,,	19	15	0
Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites)	,,	20	15	0
Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites)	,,	20	15	0
Rubber Bricks for gauged arches (London sites)	,,	51	5	0
2½ in. Surrey Clamp Burnt Multi Stock Facings (London sites)	,,	15	16	6
2½ in. Surrey Kiln Burnt Multi Stock Facings (London sites)	,,	17	7	0
Glazed Bricks (London sites), White, Ivory, Brown:				
Stretchers	,,	64	0	0
Headers	,,	63	0	0
Quoins, Bullnose and 4½ in. Flats	,,	80	0	0
Double Stretchers	,,	85	0	0
Double Headers	,,	77	10	0
One side and two ends	,,	87	0	0
Two sides and one end	,,	89	10	0
Splays and Squints	,,	83	0	0

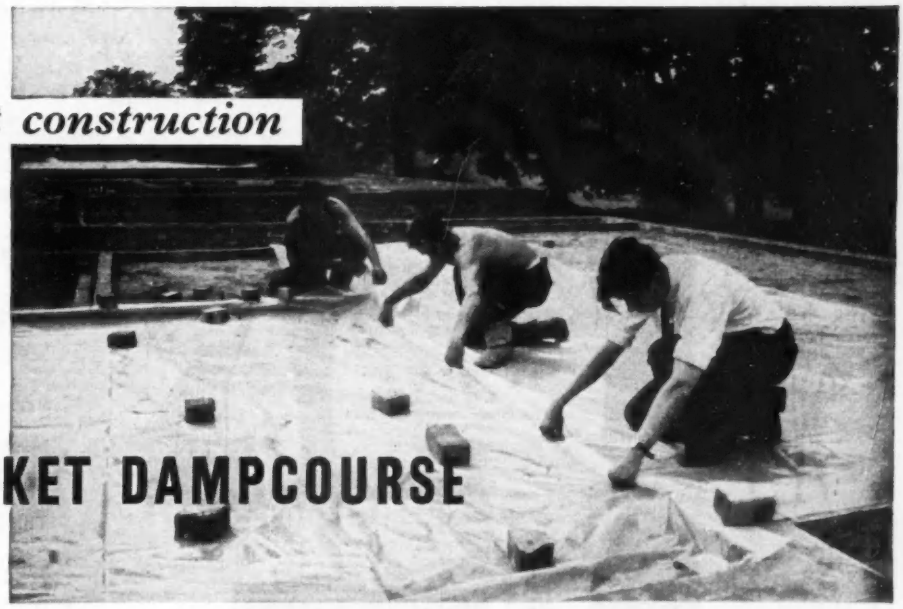
Cream and Buff, £3 extra over White. Other colours, hard glaze, £8 10s. 0d. extra over White. All above prices plus 40% for Best quality and plus 40% less 10% for Second quality.

PARTITION SLABS, etc.

Delivered Central London Area. (W.C. District.)

			£	s.	d.
HOLLOW CLAY PARTITION BLOCKS (Keyed)					
Minimum lorry loads					
*2½ in.	140 yds.	per yd. sup.		4	6
BUILDING BLOCKS (Keyed)					
*3 in. (6 cavity)	110 yds.	,,		5	7
*4 in. (6 cavity)	90 yds.	,,		7	0
6 in. (8¾ in. × 5¾ in.)	1,250 blocks	per 1,000	27	13	0
* Half blocks at no extra charge.					
CLINKER CONCRETE					
2 in.	100 yds.	per yd. sup.		3	9
2½ in.	85 yds.	,,		4	4
3 in.	75 yds.	,,		5	3
4 in.	55 yds.	,,		6	5
CRANHAM TERRA COTTA					
2 in.		,,		6	9
2½ in.		,,		7	9
3 in. Load bearing quality		,,		8	9
4 in. do. do.		,,		10	9
MOLER PARTITION BLOCKS					
2 in.	150 yds.	,,		11	3
2½ in.	120 yds.	,,		14	0
3 in.	100 yds.	,,		15	0
4 in.	90 yds.	,,		17	0
LIGHTWEIGHT CONCRETE BUILDING AND PARTITION BLOCKS OF VARIOUS SOURCES OF MANUFACTURE					
2 in.	100 yds.	per yd. sup.		5	4
2½ in.	80 yds.	,,		6	5
3 in.	65 yds.	,,		7	5
4 in.	50 yds.	,,		9	4
4½ in.	44 yds.	,,		10	2
6 in.	33 yds.	,,		13	5
THERMALITE-YTONG PARTITION BLOCKS					
2½ in.	144 yds.	,,		7	0
THERMALITE-YTONG LOAD-BEARING INSULATING BLOCKS					
3 in.	120 yds.	per yd. sup.		8	5
4 in.	90 yds.	,,		11	0
5 in.	72 yds.	,,		13	9
6 in.	60 yds.	,,		16	6
8½ in.	42 yds.	,,	1	3	8
FLOOR BLOCKS AND FILLER TILES					
Floor Blocks 12 in. × 12 in. delivered in full lorry-loads:					
3 in.		per 1,000	34	16	0
4 in.		,,	37	8	0
5 in.		,,	44	17	0
6 in.		,,	51	4	0
7 in.		,,	62	18	0
8 in.		,,	73	11	0
9 in.		,,	81	0	0
10 in.		,,	89	15	0
Filler Tiles in multiples of 10 tiles per 1,000 multiples:					
12 in. × 3 in. × ⅜ in.		,,	42	15	0
12 in. × 4 in. × ⅜ in.		,,	73	15	0
10 in. × 5 in. × ⅜ in.		,,	73	15	0

In house-raft construction



specify

BCL BLANKET DAMPCOURSE

BCL Blanket Dampcourse (0·005″ thick BCL polythene film) is the answer to the problems of moisture penetration into concrete house-rafts. It stops water rising through the raft into the house and, by preventing water-absorption by the concrete, removes the danger of the raft being damaged by frost or sulphate.

BCL Blanket Dampcourse is

—**waterproof**—virtually eliminates moisture-absorption by the concrete ;

—**rotproof and chemically inert**—will not break down or lose efficiency ;

—**tough and flexible**—will not easily break or tear when being laid ;

—**very easy to handle**—the film is light in weight and is simply laid over the fill before the concrete is placed ;

—**cheap**—material and labour-costs are very low.

Geo. Wimpey & Co. Ltd. make extensive use of BCL Blanket Dampcourse. This picture, taken with their kind permission, shows the film laid in position before the concrete is placed.

For further information, send today for a copy of the free illustrated booklet, "BCL Blanket Dampcourse", which incorporates a report on the tests carried out with this material by the Industrial Research Laboratories of the City of Birmingham Public Works Department.

BRITISH CELLOPHANE LIMITED* PLASTIC FILMS DIVISION

HENRIETTA HOUSE, 9 HENRIETTA PLACE, LONDON, W.1. MUSEUM 8311

*a member of the Courtaulds group of companies

To: BRITISH CELLOPHANE LIMITED, Plastic Films Division,
Henrietta House, 9 Henrietta Place, London, W.1.

Please send me, free of charge and without obligation, your booklet "BCL Blanket Dampcourse"..... Please tick as appropriate

Please ask your representative to call.....

NAME.....

ADDRESS.....

B26

Technibacking for Archiplasts

Yes, even archiplasts have plastering problems. But the technical service of The Gotham Group is freely available to all who need it—architect, surveyor and building contractor. Such practical on-site aid is all part of the background of research which has established pre-mixed Carlite and Green Bag Thistle as the outstanding plasters of our time. Write for a copy of 'The Green Book on Plastering' the practical handbook without which no archi-, survey- or contracti-plast should ever ever be.

THE GOTHAM GROUP

The Gotham Company Ltd., Gotham, Nottingham. Tel: Gotham 201.

Ferguson House, Marylebone Road, London, N.W.1. Tel: Hunter 4259.

The Carlisle Plaster & Cement Co., Cocklakes, Nr. Carlisle. Tel: Wetheral 345.

Thomas McGhie & Sons Ltd., Kirkby Thore, Westmorland. Tel: Kirkby Thore 204.

STONEWARE DRAIN PIPES, etc.

Glazed Stoneware Standard List (November, 1956).

		4 in.	6 in.	9 in.
Pipes, 2 ft. lengths	per ft.	1/8	2/6	4/6
Bends	,,	5/–	7/6	20/3
Junctions	,,	8/4	12/6	27/–
Gullies with 4 in. outlets	,,	12/6	13/9	22/6

The following are the percentages to be added to the Standard List (November, 1956) prices delivered London Area.

Delivered ex Merchants Wharf or Depot.

	Over 2 tons	Over 100 pieces Under 2 tons		Under 100 pieces Under 2 tons	
Best Quality ...	−10%		+5%		+12½%
BSS Best Quality ...	+10%	−10%	+10%	+5%	+10%	+12½%
Tested Quality ...	+37½%	−10%	+37½%	+5%	+37½%	+12½%
BSS Tested Quality ...	+47½%	−10%	+47½%	+5%	+47½%	+12½%

		£	s.	d.
3 in. Land Drain Pipes (in 12 in. lengths)	per 1,000	12	4	0
4 in. do. do.	,,	16	7	0
6 in. do. do.	,,	33	13	0
9 in. do. do.	,,	63	12	0

DAMP COURSE

		£	s.	d.
Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area	per yd. sup.		3	5
Asbestos base do. 7 lb. per yd. sup. do. do.	,,		5	2
Lead lined bitumen do. 9½ lb. per yd. sup. do. do.	,,		12	2
18 in. × 9 in. British damp course slates	per 1,000	43	8	11
14 in. × 9 in. do. do.	,,	32	8	2
9 in. × 9 in. do. do.	,,	18	18	9
18 in. × 4½ in. do. do.	,,	19	19	9
14 in. × 4½ in. do. do.	,,	15	18	3
9 in. × 4½ in. do. do.	,,	10	14	3

STONE

		£	s.	d.
Bath Stone				
Monks Park	per ft. cube		10	3
St. Aldhelm Box Ground	,,		11	6
Delivered in railway trucks at South Lambeth B.R. Western Region.				
Doulting Stone Random Blocks. Delivered London area	,,		10	10
Beer Stone. Delivered London area	,,		10	6
Portland Stone—				
Brown Whitbed in random blocks, 20 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region	,,		9	10
Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots.				
9 in. × 3 in. Rubbed, weathered, throated and stolled cills	per ft. cube	4	5	10
12 in. × 6 in. do. do. do.	,,	3	1	2
12 in. × 3 in. Plain coping, twice throated	,,	2	7	6
12 in. × 3 in. Weathered and twice throated coping	,,	3	3	3
14 in. × 6 in. do. do. do.	,,	2	17	0
4½ in. × 9 in. Plinth rubbed on top and face ...	,,	2	11	0
3 in. sawn two sides Slabs, random sizes ...	per ft. sup.		9	1
Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ...	per ft. cube	1	11	3
do. do. fair one edge for fair faced brickwork	,,	1	17	0
Hard York—				
12 in. × 2 in. Square Steps, rubbed on top and edge	per ft. run		11	0
14 in. × 3 in. Round-nosed Steps, rubbed on top and front	per ft. cube	2	18	3
12 in. × 6 in. Plain Steps, rubbed top and front	,,	2	11	0
2 in. Rubbed and Jointed Paving, given sizes ...	per ft. sup.		10	3
2 in. Sawn Paving, edges squared, in random sizes	per yd. sup.	3	12	0

TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000.

	£	s.	d.
Machine-made Pantiles and French pattern Tiles from Lincolnshire district	29	19	0
Hand-made Pantiles Berkshire district	55	18	0
Hand-made Double Roman Bridgwater district ...	64	4	1
Hand-made 10½ × 6½ tiles Berkshire district	15	18	3
Machine-made 10½ × 6½ Staffordshire district	15	2	6
Hand-made Hip and Valley tiles per doz.	1	11	10
Machine-made Hip and Valley tiles do.	1	10	1
Concrete tiles 10½ × 6½	8	10	0
do. Interlocking (49S)	19	16	6

NOTE.—Breakage in transit, purchasers' responsibility.

SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate station. Per 1,000 actual.

	£	s.	d.
24 × 12	155	10	0
22 × 12	123	10	0
22 × 11	111	10	0
20 × 12	104	10	0
20 × 10	102	0	0
18 × 10	69	10	0
18 × 9	61	0	0
16 × 10	54	8	10
16 × 8	42	12	4

NOTE.—Breakage in transit, purchasers' responsibility.

TIMBER

			£	s.	d.
Softwood	Ex Wharf	per			
Joinery quality	do.	standard	£115 to £140		
Carcassing quality	do.	,,	£94 — £98		
1 in. Tongued and Grooved Flooring	do.	,,	£110	0	0
Hardwood			£	s.	d.
Mahogany—African S.E.	do.	per ft. cube	1	10	0
do. Honduras S.E.	do.	,,	3	5	0
Oak European S.E.	do.	,,	2	10	0
do. Japanese S.E.	do.	,,	3	0	0
do. English Logs sawn ...	do.	,,	2	0	0
Teak 8 in. average S.E. ...	do.	,,	3	17	6
Walnut African Logs sawn ...	do.	,,	1	2	6
Plywood					
6 mm. (¼ in.) Birch Plywood B/BB	per 100 sq. ft.		4	4	6
6 mm. Israeli Gaboon do. B/BB exterior grade WBP (AX100)	,,	,,	4	5	3
18 mm. Birch Blockboard	,,	,,	9	10	0
¾ in. Douglas Fir Plywood 96 in. × 48 in. Exterior grade WBP (AX100) solid two sides	,,	,,	9	11	0

DOORS (in Lots 1–11)

Delivered London area.		£	s.	d.
1½ in. 4 Horizontal Panel. Pattern 4 in. deal				
2 ft. 0 in. × 6 ft. 6 in.	each	1	16	0
2 ft. 3 in. × 6 ft. 6 in.	,,	1	17	6
2 ft. 6 in. × 6 ft. 6 in.	,,	1	18	6
2 ft. 9 in. × 6 ft. 6 in.	,,	2	0	6
2 in. do. but top panel open. Pattern 4 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	9	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	11	6
2 in. 2 Panel top panel open. Pattern 2 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	3	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	5	0
1½ in. Plywood Faced Flush Doors to BS 459, Part 2A				
2 ft. 0 in. × 6 ft. 0 in.	,,	1	12	3
2 ft. 0 in. × 6 ft. 6 in.	,,	1	12	3
2 ft. 3 in. × 6 ft. 6 in.	,,	1	13	9
2 ft. 6 in. × 6 ft. 6 in.	,,	1	15	3
2 ft. 9 in. × 6 ft. 6 in.	,,	1	18	0
1½ in. Hardboard Faced Flush Doors.				
2 ft. 0 in. × 6 ft. 0 in.	,,	1	5	6
2 ft. 0 in. × 6 ft. 6 in.	,,	1	6	0
2 ft. 3 in. × 6 ft. 6 in.	,,	1	6	6
2 ft. 6 in. × 6 ft. 6 in.	,,	1	8	6
2 ft. 9 in. × 6 ft. 6 in.	,,	1	9	6

SUNDRIES

Delivered London area.		£	s.	d.
1 in. Wood Wool Slabs 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (89 yds. to 1 ton)	per yd.		6	2
1½ in. do. (67 yds. to 1 ton)	,,		8	0
2 in. do. (52 yds. to 1 ton)	,,		9	9½
2½ in. do. (45 yds. to 1 ton)	,,		11	3
3 in. do. (39 yds. to 1 ton)	,,		12	7½
Quantities under 1 ton add 1d. per ½ in. of thickness.				
½ in. imported or home produced insulation Board, quantities over 5,000 sq. ft.	per 100 sq. ft.	2	2	6
½ in. Hardboard do.	,,	1	17	6
3/16 in. do. do.	,,	2	4	6
2 in. Compressed Straw Slabs, roofing quality. 6 ft., 8 ft., 9 ft., 10 ft. and 12 ft. × 4 ft.				
50–100 yds.	per yd. sup.		11	4
101–250 yds.	,,		10	10
251–750 yds.	,,		10	1
Over 750 yds.	,,		9	4
2 in. do. for partitions 4d. per yd. cheaper.				
3/16 in. Asbestos Flat Building Sheets	,,		4	3½
¼ in. do. do. do.	,,		6	0
Roofing Felt 1-ply	,,		1	9
do. 2-ply	,,		2	2¼
Best Scotch Glue in slabs	per ½ cwt.	5	8	0
do. pearl	,,	5	8	0
Croid Glue	28 lb.	2	6	0
Impact Adhesive	per gall.	2	12	0
Cut Nails 3 in. (1-ton lots)	per ton	78	10	0
do. 4 in. and up (1-ton lots)	,,	75	0	0
Wire Nails 3 in. (4-cwt. lots)	per cwt.	3	13	5
do. 4 in. and up (4-cwt. lots)	,,	3	12	10

METALS

STEEL JOIST, ETC.

Basis Joists—		£	s.	d.
6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in., 12 in. × 6 in., plain cut to lengths delivered London area	per ton	47	15	0
Extra for sizes				
3 in. × 1½ in. 4 in. × 1¾ in.	,,	3	10	0
3 in. × 3 in.	,,	2	10	0
4 in. × 3 in.	,,	2	5	0
10 in. × 4½ in.	,,	1	10	0
5 in. × 2½ in. 5 in. × 3 in.	,,	1	15	0
4¾ in. × 1¾ in.	,,	3	5	0
5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. ...	,,		15	0
6 in. × 3 in. 24 in. × 7½ in.	,,	2	0	0
6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. } 9 in. × 4 in. 10 in. × 5 in.	,,	1	5	0
12 in. × 5 in. 22 in. × 7 in.	,,	1	0	0

METALS—*continued*

		£	s.	d.
9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in. 14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in. 15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in.	,,		10	0
16 in. × 8 in. 18 in. × 6 in. 18 in. × 7 in. 18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in.	per ton		10	0
Steel angles average price	,,	48	15	0
Steel tees average price	,,	49	15	0
Fabricated work delivered London—				
R.S. Joists cut and fitted	,,	64	15	0
Compound girders	,,	69	5	0
Stanchions	,,	74	15	0
Compound stanchions	,,	79	5	0
In Roof Work—Trusses and Purlins	,,	89	10	0
Average prices not for awkward work.				
Angle cleats and ⅝ in., ¾ in. and ⅞ in. bolts average price London area	per cwt.	5	10	0

Ferro-Concrete Bars and Fabric

Mild Steel Ferro-Concrete Bars British manufacture to BSS 785 ex. Mills. 1 in. diameter and upwards delivered nearest London station ...	per ton	40	10	0
do. do. ex. London Stock do. delivered London site	,,	49	10	0
Extras—				
¼ in. diam.	per ton extra	8	12	6
5/16 in. do.	,,	6	12	6
⅜ in. do.	,,	4	12	6
½ in. do.	,,	3	2	6
⅝ in. do.	,,	1	10	0
⅞ in. and ¾ in. diam.	,,		15	0
Steel wire mesh reinforcing fabric to BSS 1221A.				
Ref. No. 106 ... ... 7.88 lbs.	per sq. yd.		5	1¾
,, ,, 109 ... ... 4.71 ,, ...	,,		3	0¼
,, ,, 113 ... ... 1.83 ,, ...	,,		1	8¼
,, ,, 122 ... ... 7.32 ,, ...	,,		4	9½
,, ,, 125 ... ... 4.32 ,, ...	,,		2	10

Mild Steel Tubes

Tubes to BSS 1387. Fittings BSS 1740.

Basic List Prices

		¼ in.	⅜ in.	½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Tubes	per ft.	9¾	10	1/–	1/2½	1/9	2/3	2/8	2/9
Bends	each	1/7	1/9	2/–	2/6	3/8	5/5	6/2	10/7
Elbows, square	,,	1/8	1/10	2/2	2/6	3/–	4/4	5/2	8/6
do. round ...	,,	1/10	2/–	2/4	2/10	3/4	4/8	5/8	9/4
Tees	,,	2/–	2/2	2/6	3/2	3/8	5/–	6/2	10/2
Crosses	,,	4/4	4/8	5/6	6/6	8/2	11/–	13/2	21/–
Sockets, Plain	,,	6	6	8	10	1/–	1/4	1/9	2/6
do. Diminished	,,	8	10	1/–	1/2	1/6	2/–	2/8	4/–
Backnuts ...	,,	4	4	6	7	10	1/–	1/4	2/2

Malleable Fittings

		¼ in.	⅜ in.	½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Elbows, round	each	8½	8½	9½	1/2½	1/8½	2/7½	3/6	5/–
Tees	,,	9½	9½	1/–	1/4¾	2/–	2/9½	4/–	5/6
Crosses... ...	,,	1/2½	1/2½	1/4¾	2/–	2/9½	3/7½	5/2½	7/2½
Sockets... ...	,,	5¾	5¾	7	9½	1/–	1/7½	2/2½	3/1½
Backnuts ...	,,	3	3	3½	4½	5¾	7¾	10½	1/5½

Discounts from List prices as follows :—

Galvanised Tube—

	Under 1 ton	Over 1 ton	W.I. Fittings	Malleable Fittings
Light	−39½%	−41 %	Light −26½%	Malleable List
Medium	−35½%	−37 %	Heavy −22½%	−18¼%+40%
Heavy	−27½%	−29½%		
Black—				
Light	−50 %	−51½%	Light −32½%	Malleable List
Medium	−46 %	−47½%	Heavy −28½%	−18¼%
Heavy	−38½%	−40 %		

C.I. Half-Round Gutters

Delivered London per yd. in 6 ft. lengths.

	Gutters	Nozzles	Stop Ends
3 in.	4/0½	3/7	1/–
3½ in.	4/4½	3/11	1/–
4 in.	5/8	4/5	1/7
4½ in.	6/3	4/11	1/10
5 in.	6/11½	5/4	2/2

C.I.O.G. Gutters

Per yd. in 6-ft. lengths :	Gutters	Nozzle	Stop Ends
3 in.	5/2½	4/8	1/3
3½ in.	5/10	4/8	1/7
4 in.	6/5	4/11	1/10
4½ in.	6/11½	5/8	2/2
5 in.	7/7½	6/5	2/6

C.I. Rain-Water Pipes

	Pipe	Bends	Branches
2 in.	8/7½	4/5	6/4
2½ in.	8/7½	4/11	8/6
3 in.	9/8½	6/2	9/2
3½ in.	11/0½	7/3	11/–
4 in.	12/9	8/9	13/1

L.C.C. Coated Soil Pipes

2 in.	9/8½	7/7	9/2
2½ in.	10/4	8/5	11/5
3 in.	11/7	9/2	13/7
3½ in.	12/11½	11/5	15/10
4 in.	14/9	12/9	18/8

Above prices for gutters, rain-water and soil pipes for under 5-cwt. lots. only. Lots over 5 cwt. see List No. 3300, dated February 1, 1955, plus 25% and tonnage allowance. 4-ton lots 5%, 2-ton lots 2½%.

L.C.C. Coated Drain Pipes

		£	s.	d.
4 in. diameter in 9 ft. lengths	per yd. run	1	15	3
6 in. do. do	,,	2	11	7
4 in. diameter bends	each	1	3	9
6 in. do.	,,	3	3	9
4 in. diameter branches	,,	2	2	0
6 in. do.	,,	5	1	0

Pitch Fibre Drain Pipes

2 in. diameter in 5 ft., 5 ft. 6 in. or 8 ft. lengths including couplings	per ft. run	1	6½
3 in. do.	,,	1	10½
4 in. do.	,,	2	6
5 in. do.	,,	4	1½
6 in. do.	,,	5	0½
4 in. diameter short radius ½ bends	each	17	9
4 in. do. do. ⅛ bends	,,	12	11
2 in. diameter 6 ft. radius bends (5 ft. lengths)	,,	16	2
3 in. do. do. do.	,,	19	8
4 in. do. do. do.	,,	1 7	4
5 in. do. do. do.	,,	2 4	0
6 in. do. do. do.	,,	2 14	6

Above prices for loads of £60 and over.
Loads £25 to £59 19s. 11d. Plus 10%
Loads under £25 plus 15%

Asbestos Rain-Water Pipes and Fittings

		2 in.	2½ in.	3 in.	4 in.
All less 17½% discount.					
Pipes, 6-ft. lengths	per yd.	4/7	4/10½	5/11	7/10
Shoes	each	3/–	3/3	3/10	5/2
Single Branches	,,	4/8	5/6	6/7	9/2
Bends, square or obtuse ...	,,	3/3	3/7	4/8	6/7
Swan Necks, 4½ in. proj....	,,	3/7	4/8	5/2	7/3
do. 6 in do....	,,	3/10	5/2	5/10	7/10

Asbestos O.G. Gutters and Fittings

		4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths ...	per yd.	4/4	4/9½	5/9	6/10½
Drop ends	each	3/6	4/–	4/9	5/5
Stop ends	,,	1/1	1/2	1/3	1/5
Angles	,,	3/7	4/1	5/–	5/10
Nozzles	,,	3/6	4/–	4/9	5/–
Union Clips	,,	1/9	2/1	2/6	2/11

Asbestos Half-Round Gutters and Fitting

	per	3 in.	4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	yd.	3/0½	3/7½	3/8½	4/4½	6/1
Drop ends	each	2/6	3/–	3/3	3/7	5/2
Stop ends	,,	1/–	1/1	1/2	1/3	1/5
Angles	,,	2/10	3/3	3/7	3/10	5/2
Nozzles	,,	2/6	3/–	3/3	3/7	5/2
Union Clips	,,	1/3	1/4	1/5	1/7	2/5

	Per ton basis in London £	s.	d.
Iron—Staffordshire Crown Merchant Quality	52	17	6
Mild Steel Bars	47	8	6
Mild Steel Hoops	49	0	0
	Ex Merchant's Stock per ton Two-ton lots £	s.	d.
Soft Sheets C.R. and C.A.—			
20 gauge	62	7	6
24 gauge	64	17	6
26 gauge	67	17	6
Galvanised Corrugated Sheets, 6-ft. to 9-ft. —			
20 gauge	70	18	0
24 gauge	74	8	0
26 gauge	79	13	0
Galvanised Flat Sheets C.R. and C.A. :			
20 gauge	72	8	0
24 gauge	75	18	0
26 gauge	81	3	0

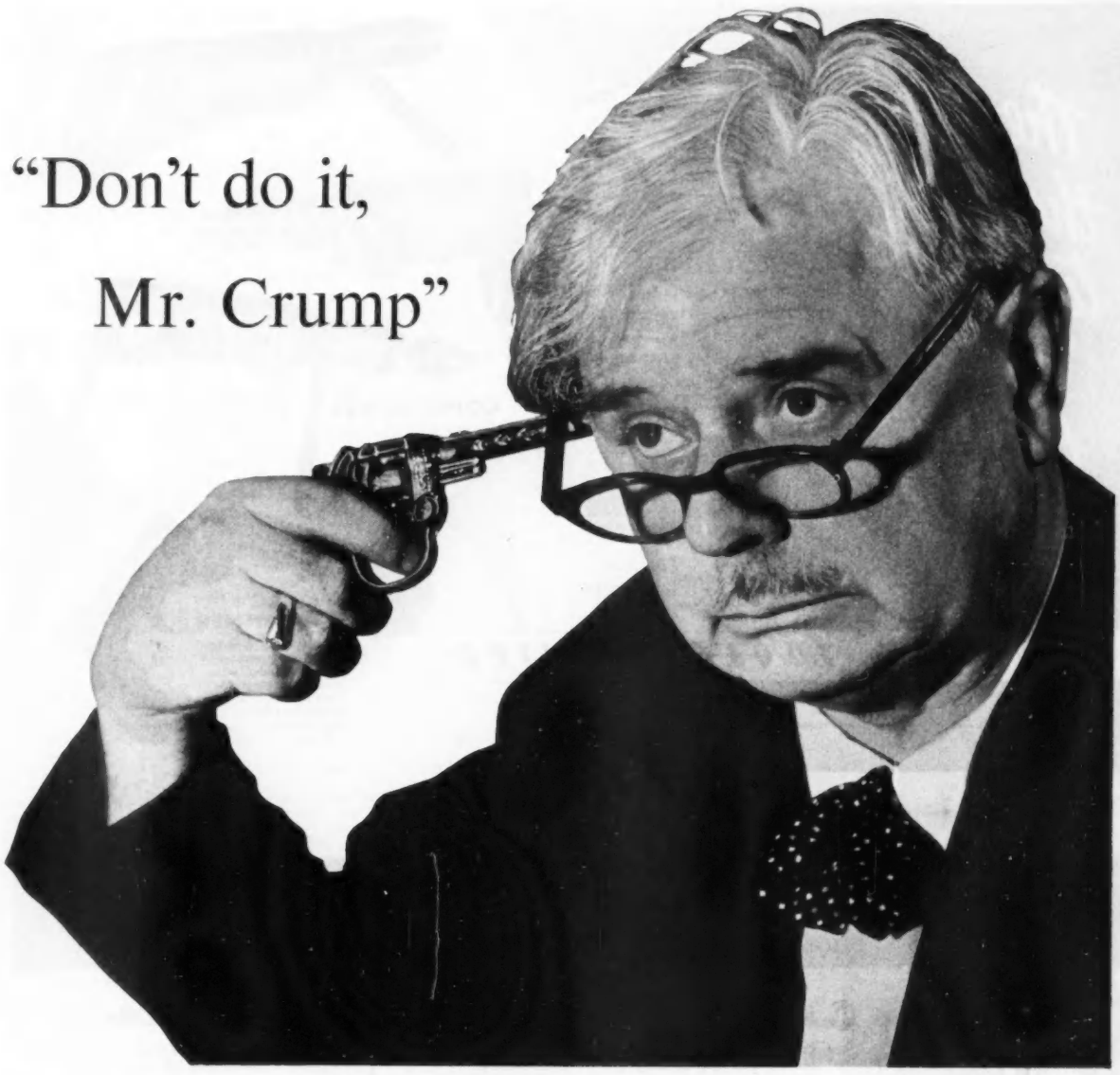
ALUMINIUM AND ALUMINIUM ALLOYS

(Base Prices)		£	s.	d.
Sheet BS 1740 S1C 18 SWG (36 in. wide)... ...	per lb.		3	0
Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide)	,,		2	11
Coiled strip BS 1470 S1C 18 SWG (24 in. wide)	,,		2	11
Coiled strip BS 1470 NS3 Utility 18 SWG (24 in. wide)	,,		2	10½
Coiled strip for flashing, high purity, 22 SWG (12 in. wide)	,,		3	1½
Corrugated sheet BS 1470 NS3 Circular Profile 8 ft. × 32 in. × 20 SWG	per sheet	1	13	6
Corrugated sheet BS 1470 NS3 Industrial Profile 8 ft. × 31¾ in. × 20 SWG	,,	1	19	3
Corrugated sheet BS 1470 NS3 Mansard Profile 8 ft. × 31¾ in. × 20 SWG	,,	1	12	7
Extruded section BS 1476 E1C simple moulding	per lb.		2	10
Extruded section BS 1476 E1C 1 in. diam. round	,,		2	7½
Extruded section BS 1476 HE10WP simple angle	,,		3	1½
Extruded section BS 1476 HE10WP 1 in. diam. round	,,		3	0½
Tubing BS 1471 T1C 1½ in. O/D × 20 SWG ...	,,		6	6½
Tubing BS 1471 HT19WP 1½ in. O/D × 20 SWG	,,		4	0½

PLUMBERS' BRASS WORK, etc.

Delivered in London area.

All per dozen	B.S.S. ½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown bib cocks Crutch head for iron...	87/–	128/–	—	—	—	—
Toilet bib cocks for iron ...	109/–	158/5	—	—	—	—



YOUR worries are at an end. Many identical building problems have been solved by Southern Forge who will gladly give you every assistance in the development of your particular application for aluminium alloy Extrusions or Tubes.
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Wide range of solid and hollow extrusions
Road transport sections
Decorative aluminium alloy sections
Drop stampings
Free machining bars, etc.

Southern Forge LTD

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Telephone LANGLEY 301

MANUFACTURERS OF ALUMINIUM AND ALUMINIUM ALLOY EXTRUSION TUBES AND FORGINGS

The tools that make lightwork of the toughest job!

WESTA
An electrically operated wall keyway cutter–cuts clean–chases quickly.

COMBI RANGE
Vibratory drills for concrete, granite and masonry. Three models available from ½" to 3½" capacity.

FIX RAMMER
A completely new tool which incorporates breech loading with automatic cartridge ejection—increases the speed for normal cartridge fixings by 100%.

Literature on application

LANGHAM TOOLS LIMITED

19 MARGARET STREET, LONDON, W.1.

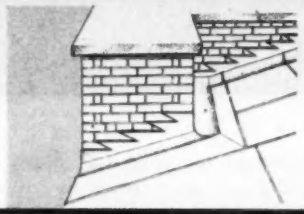
Telephone: LANgham 2295—5709

DHB/77 07

ICI COPPER FOR BUILDING

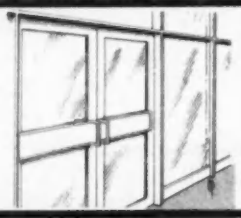
Roofing Copper

Coiled strip or sheet to BS 1569 for roof and wall cladding. Supplied in tempers appropriate to the roofing method.



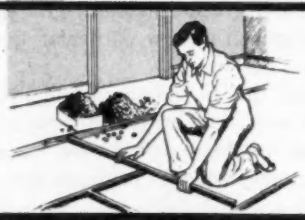
Gutterings & flashings

Copper sheet or strip to BS 1569 for gutterings, flashings and weatherings. Also supplied to BS 1431 for rainwater goods. Dead soft or half-hard temper.



Extrusions

Copper alloy extrusions for balustrades, doors, window frames, stair nosings, shop fittings and decorative trim.

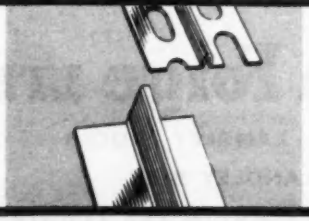


'Terrabond'

Serrated brass strip for terrazzo flooring. Reduces laying costs by allowing an early start to filling-in. Two sizes—¼" x ⅛" and ⅜" x ⅛", special sizes to order.

'Kudampro' dampcourse strip

Copper strip for horizontal damp-proof courses. Will not tear, puncture or exude from the joints. Soft-temper coils of standard length, widths up to 36".



Expansion joint strip

Copper strip for expansion joints, two patterns—BS 1878 and to ICI design with punched holes to keep strip firm. Standard 10-12 ft. lengths x 5" wide.

C.2.

ICI METALS DIVISION

IMPERIAL CHEMICAL INDUSTRIES LIMITED · LONDON · S.W.1.

PLUMBERS' BRASS WORK, etc.—*continued*

All per dozen	½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown stop cocks for iron	66/-	95/9	188/-	363/-	522/6	917/6
do. with two unions for lead	89/-	132/-	234/4	472/-	623/6	1,389/6
Double nut boiler screws ...	18/8	26/5	47/6	48/6	67/-	93/6
Heavy Croydon ball valves...	77/-	193/6	312/5	568/8	734/10	—
Plumbers' union brass lead to iron	19/6	23/6	38/6	52/10	70/6	165/-
	1¼ in.	1½ in.	2 in.	3 in.	3½ in.	4 in.
Caps and Screws	33/-	40/8	59/6	92/5	118/10	155/3
Brass Sleeves	—	3i/11	31/11	56/2	74/10	91/5
	1¼ × 6 lb.	1½ × 6 lb.	2 × 7 lb.	3 × 7 lb.		
Lead P. trap with brass cleaning screws	68/6	85/6	137/-	233/9		
Lead S. trap do. do.	82/9	102/9	168/3	302/3		

Solder :			s.	d.
Plumbers' ...	1 cwt. lots	320/-	14 lb. lots per lb.	3 7
Tinmen's	,, ,,	404/-	,, ,, ,,	4 5
Blow pipe ...	,, ,,	407/-	,, ,, ,,	4 6

Copper Tubes and Sheets

Copper tubes BSS 659/1944 on the basic price of 26¼d. per lb. plus gauge and manufacturing extras as follows. Minimum quantities, 10 cwt.

	Extra d.		d.		d.
⅛ in. × 19 gauge	15½	Total per lb.	41¾	Approx. per ft.	11¼
⅜ in. × 19 ,,	13¾	,, ,,	40	,, ,,	15½
1 in. × 18 ,,	12¼	,, ,,	38½	,, ,,	23¾
1¼ in. × 18 ,,	11⅝	,, ,,	37⅞	,, ,,	28½
1½ in. × 18 ,,	11⅝	,, ,,	37⅞	,, ,,	34¼
2 in. × 17 ,,	13¼	,, ,,	39½	,, ,,	55¼

Small Quantity extras :—

10 cwts. to 5 cwts.	plus ½d. per lb.
5 cwts. to 2 cwts.	,, 1d. ,,
2 cwts. to 1 cwt.	,, 2d. ,,

	£	s.	d.
Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras	258	0	0

Zinc

		£	s.	d.
Sheet Zinc, 10 gauge (25 SWG), 5 cwt. lots upwards	per cwt.	7	15	3
,, ,, 12 gauge (23 SWG), ,, ,, ,,	,,	7	14	9
,, ,, 14 gauge (21 SWG), ,, ,, ,,	,,	7	13	6

Brass Tube

Brass tubes, basic price, plus gauge and manufacturing extras	per lb.	1	10

LEAD SHEET AND PIPES

Basis selling price to one address in London or Home Counties :

		£	s.	d.
Lead Sheet, English, 3½ lb. substance and upwards	per ton	106	0	0
,, Water Pipe, in coils	,,	108	5	0
Lead Soil Pipe, 10 ft. or over 2 in. to 4 in. in dia.	,,	109	15	0
,, ,, ,, over 4 in. dia.	,,	111	15	0
,, Gas or Untinned Compo pipe	,,	109	15	0

5 cwt. lots and over less 6d. per cwt. off basic prices.

Extras over Basis for quantities under 5 cwt.:

3 cwt. and under 5 cwt.	per cwt.	4	0
1 cwt. do. 3 cwt.	,,	6	0

Smaller quantities than 1 cwt. priced specially.

Supplying sheet lead and lead pipe to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.

Allowance for Old Lead, collected, £60 0s. 0d. per ton weighed at buyer's works.

PLASTER, etc.

		£	s.	d.
Coarse Pink in 1-ton loads and over delivered on site	per ton	8	4	6
do. White do. do. do.	,,	8	14	0
Sirapite Coarse BSS 1191 Class C do.	,,	8	15	9
do. Fine do. do. do.	,,	9	3	3
do. Browning BSS 1191 Class B do.	,,	8	15	9
do. Board Finish do. do.	,,	8	15	9
Blue Lias Lime, in 6-ton loads	,,	6	14	6
Hydrated Lime (Grey), in 6-ton loads	,,	5	10	0
do. (White) do.	,,	6	0	0
Lump Lime (Grey) do.	,,	5	7	0
do. (White) do.	,,	5	14	6
White Keen's or Parian Cement, in 1-ton loads...	,,	11	19	3
Pink Keen's or Parian Cement, in 1-ton loads ...	,,	11	14	0
Granite Chips, in 6-ton loads	,,	2	5	3
Hair	per cwt.	4	17	6
Gypsum Plaster Lath or Base Board, ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	per yd.		2	3½
1,200 yds.	,,		2	2½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,		2	9
1,200 yds.	,,		2	9
Gypsum Plaster Wall Boards, 3 and 4 ft. wide 6 to 12 ft., ⅜ in. thick, 600 yds, and over in one delivery. Delivered site	,,		2	6½
1,200 yds.	,,		2	5½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,		3	0
1,200 yds.	,,		3	0

PAINTS AND DISTEMPER

Delivered London area.

		£	s.	d.
Ceiling Distemper	per cwt.	1	7	6
Washable Distemper	,,	5	15	0
Gloss Paint	per gal.	2	16	0
Super Snowcem cement paint (in 1 cwt. drums) ...	per cwt.	4	0	0

Lead Products and Oils

		£.	s.	d.
Ground White Lead, in 1 cwt. kegs	per cwt.	8	7	6
Genuine White Lead Paint, 1-19 gal. lots in 1 gal. tins	per gal.	3	6	6
Genuine Red Lead, Dry, 1 cwt. keg (10 ton lots)	per cwt.	5	12	6
do. do. do. (1 cwt. lots)	,,	6	19	0
Genuine Linseed Oil Putty, 1 cwt. keg	,,	2	13	6
Size XD quality 28 lb.	per tin		9	0
Raw Linseed Oil (5 gal.) drums extra	per gal.		19	2
Boiled Linseed Oil (5 gal.) do.	,,	1	0	0

Sundries

Turpentine substitute (5 gal.) drums extra... ...	,,		5	4½
do. do. (40 gal.) do.	,,		4	8½
Solignum, Brown (5 gal. cans) Exterior	,,		8	8
Creosote (40 gal. barrels)	,,		2	3
Paste Powder (1 lb. packets)	per lb.		2	4
White Lining Paper	per piece		1	2

VARNISHES, etc.

Delivered London area.

		£	s.	d.
Oak Varnish, Outside or Inside	per gal.	2	0	0
Oal Pale Copal do. do.	,,	2	0	0
Hard Drying Oak for Inside	,,	2	5	0
Crystal Paper Varnish do.	,,	2	8	0
Eggshell Flat Varnish do.	,,	2	2	0
Finest Carriage Varnish	,,	2	7	0
Front Door Varnish	,,	2	4	0
Japan Gold Size	,,	1	12	0
Black Japan	,,	1	16	0
Brunswick Black	,,	1	12	0
Berlin Black	,,	1	10	0
Terebene	,,	1	12	0
Knotting (1 gal. bottles free)	,,	1	15	0
French and Brush Polish (do.)...	,,	1	15	0

GLASS

Delivered London area.

		s.	d.
18 oz. Sheet Glass Ordinary Glazing Quality— Cut Sizes	per ft. sup.		9½
24 oz. do. do. do. do.	,,		11½
26 oz. do. do. do. do.	,,	1	2½
32 oz. do. do. do. do.	,,	1	6½
⅛ in. Rolled Plate	,,	1	2½
7/16 in. Rolled and Rough Cast	,,	1	5
¼ in. do. do.	,,	1	5¾
⅛ in. Figured Rolled and Cathedral, Standard patterns—			
White Group 1	,,	1	2½
do. Group 2	,,	1	8½
do. Standard Tints	,,	2	1½
do. Special Tints	,,	7	3
⅛ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating Group 3	,,	1	7½
¼ in. Wired Cast	,,	1	9½
¼ in. Georgian Wired Cast	,,	1	9½

Hollow Glass Blocks—

P.B.2	Cross reeded	5¾ × 5¾ × 3⅞ in.	each	3 6
P.B.3	Broad reeded	7¾ × 7¾ × 3⅞ in.	,,	5 4
P.B.32	Cross reeded	7¾ × 7¾ × 3⅞ in.	,,	5 4
P.B.4	Prismatic	7¾ × 7¾ × 3⅞ in.	,,	6 0
P.B.5	Flemish	7¾ × 7¾ × 3⅞ in.	,,	5 4
P.B.6	Boomerang	7¾ × 7¾ × 3⅞ in.	,,	6 0

Half Size Blocks—

P.B.32	Cross reeded	7¾ × 3¾ × 3⅞ in.	,,	4 6

Radiused Corner Blocks to match up with—

P.B.2	Cross reeded	,,	7	6
P.B.3	Broad reeded	,,	9	0
P.B.32	Cross reeded	,,	9	0

P.B.2, P.B.3, P.B.32 are also supplied in Light Diffusing Blocks at same price.

¼ in. Polished Plate Glass, G.G. quality—

In plates not exceeding	2 ft. sup.	per ft. sup.	4	7
,, ,, ,,	5 ft. sup.	,,	5	7
,, ,, ,,	45 ft. sup.	,,	6	9
,, ,, ,,	100 ft. sup.	,,	7	4

¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality—Not exceeding 135 ft. sup. or 240 in. one way or 130 in. both ways ... ,, 10 9

Not exceeding 180 ft. sup. or do. ... ... ,, 14 3

Plates exceeding 180 ft. sup. prices on application.

Substances other than ¼ in. Polished Plate at Special Prices.

Quantity Tariff—Sheet and Sundry Glass.

The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

Description of Glass	Minimum quantity	per ft. sup. s.	d.
18 oz. sheet O.Q.	3,000		6¾
24 oz. ,, ,, ...	2,000		8¾
26 oz. ,, ,, ...	2,000		11
32 oz. ,, ,, ...	2,000	1	2½
⅛ in. Rolled Plate	1,000		10¾
⅛ in. Figured Rolled and Cathedral Standard Patterns, White Group 1	1,000		10¾
do. Group 2	1,000	1	2
⅛ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte Group 3	1,000	1	2
7/16 in. Rolled Plate or Rough Cast	2,000	1	1
¼ in. do. do.	2,000	1	1¾
¼ in. Wired Cast, Hexagonal	2,000	1	4½
¼ in. Georgian Wired Cast	2,000	1	4½

THE BUILDER RATES OF WAGES

AS FROM OCTOBER 3rd., 1960. **(Every endeavour is made to ensure accuracy but we cannot be responsible for errors)**

1. Craftsmen and Labourers.

Region	Craftsmen	Labourers
	s. d.	s. d.
England & Wales (Grade A) ...	4 11½	4 4
London	5 1	4 5½
Liverpool and District ...	5 1	4 5½
Scotland... ...	4 11½	4 4

2. Apprentices.

Age	Per cent. of Craft Rate	London and Liverpool Dist.	England, Wales
		s. d.	s. d.
15	25	1 3½	1 3
16	33½	1 8½	1 8
17	50	2 6½	2 5½
18	62½	3 2½	3 1½
19	75	3 9½	3 8½
20	87½	4 5½	4 4½

3. Young Male Labourers.

Age	Per cent. of Craft Rate	London and Liverpool Dist.	England, Wales and Scotland
		s. d.	s. d.
15	33½	1 6	1 5½
16	45	2 0½	1 11½
17	66⅔	2 11⅔	2 10½
18	100	4 5½	4 4

NORTHERN IRELAND is not included; rates fluctuate so much from district to district that reference should be made to local offices.
WATCHMEN.—The rates per shift for watchmen engaged on building sites is 27s. 3d. in London and Liverpool District, and 26s. in the provinces.
FEMALE OPERATIVES.—In all districts throughout the country except in Scotland the rate of wages for women, aged 19 and over, engaged in craft processes is 4s. 1d. per hour. Women engaged on work other than craft processes, 3s. 9d. per hour. In Scotland the rate for the woman craftsman is 4s. 4d. after a probationary period, and the woman labourer, 3s. 10d.

New Companies

THE FOLLOWING NEW COMPANIES, registered in England, have been announced by Jordan and Sons, Ltd., company registration agents.

M. G. PATRICK AND CO. LTD.—Regd. July 25, 1960. 19 Gildredge-rd., Eastbourne, Sussex. Secy.: S. F. Say. Bldr., decorator and painter. Nom. cap.: £100.

C. F. DENNISON & SON LTD.—Regd. July 26, 1960. Dorset-hse., High-rd., Laindon, Basildon, Essex. Secy.: Dorothy E. M. Dennison. Bldrs., etc. Nom. cap.: £100.

H. L. HEALY & CO. LTD.—Regd. July 26, 1960. 5 St. Nicholas-st., Leicester. Secy.: W. J. Kennard. Bldrs., etc. Nom. cap.: £500.

STABILITY STRUCTURES (EWELL) LTD.—Regd. July 26, 1960. 'Holmedene,' Epsom-rd., Ewell, Surrey. Public works contractors, bldrs., etc. Nom. cap.: £100. Sub.: William A. Brunning.

CALIX BUILDERS LTD.—Regd. July 26, 1960. Nom. cap.: £100. Sub.: Dorothy M. Graeme, 61 Fairview-ave., Gillingham, Kent.

J. BLADON & CO. LTD.—Regd. July 26, 1960. Bldrs., etc. Nom. cap.: £250. Sub.: Shirley Hart, 57 Rodney Court, Maida Vale, W9.

LESCO (BUILDING CONTRACTORS) LTD.—Regd. July 26, 1960. 24a Dangan-rd., SW12. Secy.: Cecilia Galligan. Nom. cap.: £100.

ROBT. HAWKINS (CONTRACTORS) LTD.—Regd. July 26, 1960. 61a South-rd., Southall. Secy.: C. V. Tillson Phillips. Bldrs., etc. Nom. cap.: £500.

V. A. T. WATKINS LTD.—Regd. July 26, 1960. 66 Lincoln-rd., Enfield, Mdx. Secy.: Deanna P. Watkins. Bldrs., etc. Nom. cap.: £10,000.

A. R. PHILLIPS LTD.—Regd. July 27, 1960. 100 Burnham-ave., Ickenham. Secy.: Dorothy Phillips. Bldrs., etc. Nom. cap.: £100.

E. J. QUINN (CONSTRUCTION) LTD.—Regd. July 27, 1960. 51 Inchmery-rd., SE6. Secy.: J. L. Klarkowski. Bldrs., etc. Nom. cap.: £500.

D. HAYERS & CO. LTD.—Regd. July 27, 1960. 'The Smugglers,' West Wittering, Sussex. Secy.: J. H. Hayers. Bldrs., contractors, etc. Nom. cap.: £1,500.

MERRION STREET BUILDERS LTD.—Regd. July 27, 1960. 34 Manchester-rd., Bradford 5. Secy.: Winifred Goodrick. Nom. cap.: £100.

PHILLIPS AND WHITE (BUILDERS) LTD.—Regd. July 27, 1960. Nom. cap.: £1,000. Dir.: Benjamin G. Phillips, 'Chessholme,' 7 Glenfield-rd., Ashford, Mdx.

R. N. BURRILL (CONTRACTORS) LTD.—Regd. July 28, 1960. Bldrs. and contractors. Nom. cap.: £100. Sub.: James P. Davisson, 65a Fenchurch-st., EC2.

S. LINGHAM LTD.—Regd. July 28, 1960. Fermanagh, Town Street-rd., Brandon, Suffolk. Secy.: Margaret R. Lingham. Bldrs. and contractors. Nom. cap.: £5,000.

BUILDING COST CONTROL LTD.—Regd. July 28, 1960. Quantity surveyors, etc. Nom. cap.: £100. Sub.: Laurence G. Payne, 261a Finchley-rd., NW3.

PICKARD AND CLAY (BUILDERS) LTD.—Regd. July 29, 1960. Cosy-bldgs., Low-st., Keighley, Yorks. Secy.: P. Shuttleworth. Nom. cap.: £1,000.

R. A. CONTRACTORS (CULFORD) LTD.—Regd. July 29, 1960. 3 Guildhall-st., Bury St. Edmunds, Suffolk. Secy.: Sheila A. Rackham. Nom. cap.: £750.

RUDDLE BROS. LTD.—Regd. July 29, 1960. Elliston, Wells-rd., Glastonbury. Secy.: Gladys I. Watts. Public works contractor and bldr. Nom. cap.: £10,000.

PATTON & CHILD LTD.—Regd. July 29, 1960. 5 Rectory Grove, Croydon, Surrey. Secy.: Mrs. V. C. Patton. Bldrs., etc. Nom. cap.: £100.

FARNBOROUGH CONSTRUCTION COMPANY LTD.—Regd. July 29, 1960. 'Briangate,' Ottershaw, Chertsey, Surrey. Secy.: H. O. Billson. Bldrs.; bldg., public works and civil engineering contractors, etc. Nom. cap.: £2,000.

THOMAS RIDLEY & SONS (JOINERS & BUILDERS) LTD.—Regd. July 29, 1960. Joiners and bldg. and shopfitting contractors. Nom. cap.: £3,500. Sub.: W. P. Lockstone, 116 Chancery-la., WC2.

C. E. CHRISTIAN LTD.—Regd. Aug. 29, 1960. 80a Tower-rd., Newquay, Cornwall. Secy.: Bernard O. Warmington. Building and civil engineering contractors, etc. Nom. cap.: £65,000.

CABATAL BUILDERS LTD.—Regd. Aug. 29, 1960. Secy.: Gordon V. Graeme. Nom. cap.: £100. Sub.: Dorothy M. Graeme, 61 Fairview-ave., Gillingham, Kent.

JOSEPH OLIVER LTD.—Regd. Aug. 29, 1960. Contract-hse., Main-st., Ponteland, Newcastle-on-Tyne. Secy.: Norman A. Raine. Bldrs., contractors, etc. Nom. cap.: £6,000.

ROY SHAW LTD.—Regd. Aug. 29, 1960. Norwood, Rupert-st., Pilsley, nr. Chesterfield. Secy.: Annie Shaw. Nom. cap.: £1,500. Builder and funeral director.

W. F. ALLHOMES LTD.—Regd. Aug. 29, 1960. 34 Dragon-st., Petersfield, Hants. Secy.: R. M. G. Ferguson. Builders, etc. Nom. cap.: £1,000.

GILL DEVELOPMENTS LTD.—Regd. Aug. 30, 1960. 43 Park-rd., Hounslow, Mdx. Secy.: J. D. Gill. Engineeers, architects, etc. Nom. cap.: £1,000.

J. E. TRIMMING (BUILDERS) LTD.—Regd. Aug. 30, 1960. Rutherford, Fullers-rd., Holt Pound, Farnham, Surrey. Secy.: Jean W. Trimming. Nom. cap.: £1,000.

A. BAILEY AND SONS LTD.—Regd. Aug. 30, 1960. The Thorns, Wickhambrook, Newmarket. Secy.: Eric G. Bailey. Builders, etc. Nom. cap.: £6,000.

A. E. SPREADBURY AND SONS LTD.—Regd. Aug. 30, 1960. Bristol and West House, Post Office-rd., Bournemouth. Builders, etc. Nom. cap.: £2,000.

FALMOUTH BUILDING AND DECORATING CO. LTD.—Regd. Aug. 30, 1960. Nom. cap.: £100. Dir.: Gerald W. Nurse, 7 Western-ter., Falmouth, Cornwall.

W. H. C. REYNOLDS LTD.—Regd. Aug. 30, 1960. 31 Marlborough-rd., E18. Secy.: Lena Reynolds. Builders, etc. Nom. cap.: £1,200.

BALSALL PROPERTIES (DEVELOPMENT AND PLANNING) LTD.—Regd. Aug. 31, 1960. Station-rd., Balsall Common, Coventry. Nom. cap.: £1,000.

HAMSTEAD PROPERTY REPAIR AND BUILDING CO. LTD.—Regd. Aug. 31, 1960. 37 Hamstead-rd., Handsworth, Birmingham. Nom. cap.: £2,000. Permt. dir.: Harold W. Jackson, 160 Birmingham-rd., Shenstone, Wood End, Staffs.

ERIC HALL LTD.—Regd. Aug. 31, 1960. Builders and builders' merchants, etc. Nom. cap.: £100. Dir.: Eric Hall, 397 Finchampstead-rd., Wokingham, Berks.

LAWRENCE BERG (BUILDERS) LTD.—Regd. Aug. 31, 1960. St. Stephens-hse., Victoria Embankment, SW1. Secy.: J. C. G. Washington. Nom. cap.: £1,000.

GEORGE S. WALKER (CHADDERTON) LTD.—Regd. Aug. 31, 1960. Ashdene, Fernyfield-rd., Chadderton, Lancs. Secy.: Ivy Walker. Construction, repair and demolition of buildings, erections, etc. Nom. cap.: £1,000.

S. HEALEY AND CO. LTD.—Regd. Aug. 31, 1960. 16/18, Hackins Hey, Liverpool 2. Secy.: Lilian Healey. Builder and building contractor, etc. Nom. cap.: £100.

WESTOVER BUILDING CO. LTD.—Regd. Aug. 31, 1960. 3 Back Avondale-rd. west, Morecambe & Heysham. Secy.: N. Illidge. Nom. cap.: £1,000.

H. G. FOREMAN AND SON LTD.—Regd. Aug. 31, 1960. 'Danae,' St. Marks-rd., Hadleigh, Essex. Secy.: Harry G. Foreman. Builders and contractors, etc. Nom. cap.: £2,000.

J. AND F. WOLTON (BUILDERS) LTD.—Regd. Aug. 31, 1960. 3 Watson-rd., Clacton-on-Sea, Essex. Secy.: Fdk. Wolton. Nom. cap.: £5,000.

JOHN JACKSON & SONS (BUILDERS) LTD.—Regd. Sept. 1, 1960. Nom. cap.: £1,000. Dir.: Ronald Jackson, Holmwood, Western Way, Ponteland.

HOCK CONSTRUCTION CO. LTD.—Regd. Sept. 1, 1960. 27 Stamford-hill, N16. Secy.: F. Kritzler. Nom. cap.: £100.

J. BARBER (BUILDERS) LTD.—Regd. Sept. 1, 1960. 2 Clinton-la., Kenilworth. Secy.: Kathleen M. Barber. Nom. cap.: £5,000.

K. MOORE (BUILDER) LTD.—Regd. Sept. 1, 1960. Nom. cap.: £1,000. Permt. Dir.: Kenneth Moore, 1 Meadow-close, Streetly, Sutton Coldfield.

ROBERT NEVARD LTD.—Regd. Sept. 1, 1960. 21 Reddings, Welwyn Garden City, Herts. Secy.: Stella M. Nevard. Bldrs., etc. Nom. cap.: £100.

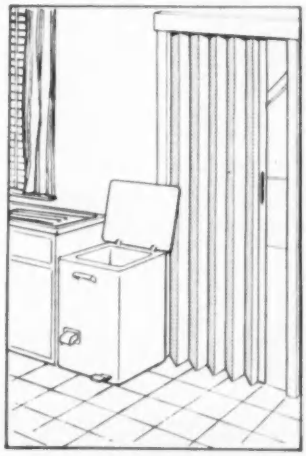
PAGE-JOHNSON BUILDERS LTD.—Regd. Sept. 1, 1960. Nom. cap.: £1,000. Sub.: Peter E. Brough, 160 School-rd., Yardley Wood, Birmingham, 14.

NORTHERN BUILDERS (LONDON) LTD.—Regd. Sept. 2, 1960. 274 Hither Green-la., SE13. Secy.: Elsie M. Winter. Nom. cap.: £1,000.

In restricted floor and wall areas . . .

MARLEY SPACE-SAVER DOORS

free waste wall space for modern appliances



The age of the labour saving appliance demands a new approach to building and planning. Marley meet this demand with secure, smoothly operating folding doors, for use wherever space is at a premium.

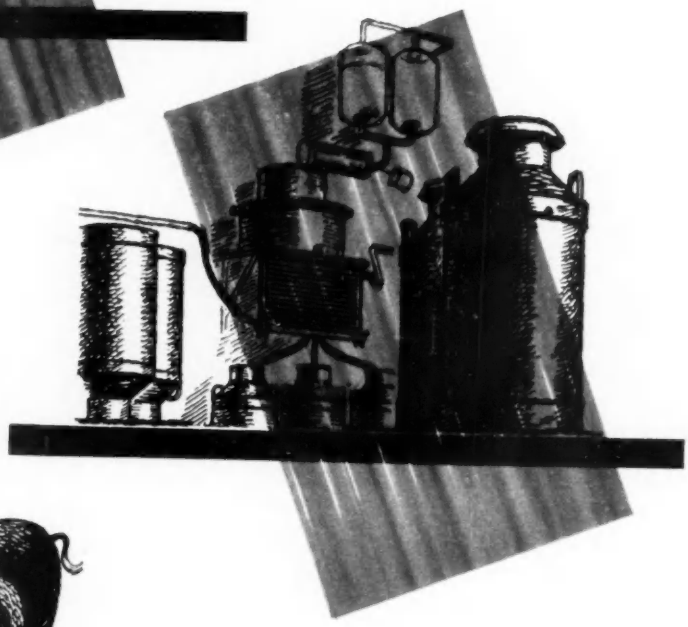
Available in five colours, or with a different colour on each side, three styles are of hardwearing washable vinyl over durable rigid panels, while a fourth closure is of strong, pre-pleated vinyl.
Marley Space-Saver Doors are designed to fit openings 6′ 6″, 6′ 8″ and 8′ high, and from 2′ 3″ to 8′ wide. They may be paired to enclose widths up to 16′.

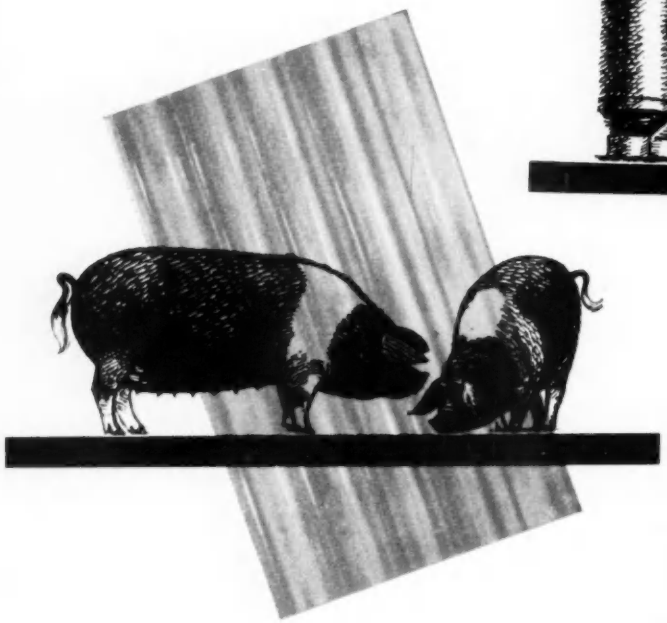
MARLEY SEVENOAKS · KENT · Sevenoaks 55255 · London Showrooms · 251 Tottenham Court Road · W.1

Unilux – makes light work on farms and estates

It gives in one sheet weatherproof cover and natural light for farm buildings, garages and sheds. **UNILUX** is light in weight, giving 85% light transmission. **UNILUX** is available in many attractive colours and can be supplied to match the profile of any standard roofing.

UNILUX is fire-retardant, durable, strong, easy to work and easy to fix. It is unaffected by weather and climatic conditions and needs no maintenance.





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Unilux the Best in Translucent Sheeting

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TECHNICAL REVIEW

This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 168 of this issue. The form can be used for more than one inquiry.

1. Paint

A PAINT, incorporating the latest chalk-resisting and light-fast pigments, is said to give particularly effective protection against salt water and spray. It has also good properties of durability, abrasion resistance and gloss and colour retention and should prove useful for preserving the exteriors of buildings situated along the coast line. Under normal conditions the paint will dry to a dust-free condition in 6 to 8 hours and become hard-dry overnight.

E. Wood Ltd.,
Talbot Works, Stanstead Abbots, Ware, Herts.

2. Doors

OVERHEAD DOOR GEARS, developed for heavy and wide one-piece doors, would also be suitable for double garages. They are easy to operate, whilst effective tension bracing for doors up to 17 ft. wide is supplied with each set of gear. Patented rubber buffered door stops ensure that there is no projection when the door is fully open so avoiding a rain and wind trap. One-piece weather strips provide complete weather-proofing.

P. C. Henderson, Ltd.,
Tangent Works, Harold Hill,
Romford, Essex.

3. Flooring

A finished FLOORING GRADE is now being marketed which is obtained by applying a plastic seal to Red Edge board. The plastic film fills the pores of the board and prevents the penetration of dirt so that the floor is ready for use immediately laying operations are completed. The surface is semi-gloss, similar to a wax polished surface, but is non-slip. It is also resistant to the action of most chemicals, oils and greases and can be cleaned with a brush or damp mop.

Bartrev Board Co., Ltd.,
5 St. James Place,
London, SW1.

A semi-plastic compound, when mixed with Portland cement, clean sharp sand and ¼ in. clean granite chips, is said to make a highly resilient SURFACING MATERIAL for industrial floors. It provides a topping which is slightly compressive under initial service and is easy to the feet. There is no need for expansion joints and the surface, which is dustless and non-skid, needs little maintenance. The material may be used either for patching or complete overlays, but it is not recommended where there is spillage of oils, fats, greases or solvents.

Stonhard Co., Ltd.,
Berger House, Berkeley-sq.,
London, W1.

4. Lighting

The 2 ft. 40 watt fluorescent lamp is operated by a 200/250 v. 50 cycle control gear

A TRAFFIC BEACON, recently introduced, should give effective indication of garage entrances and exits at night. The lighting unit is constructed from steel and the diffuser is formed from white opal Perspex with the background for the lettering in blue. By removing the top cover, access can be gained to the control gear panel, whilst provision is made for cable-entry in the base of the unit. The metalwork of the lighting unit is enamelled and proofed against rust.

Hume Atkins & Co., Ltd.,
163 Victoria-st., London, SW1.

5. Clothing

A SAFETY JERKIN has been developed by a manufacturer, in conjunction with the fire service of a provincial town, which is readily visible in darkness and provides the wearer with added protection in bad weather conditions. The jerkin is made from white pvc-coated heavy weight material and, so that the garment can be seen in the lights of oncoming traffic when emergency work is carried out at night, a 9 in. square of Scotchlite is built into the back and a 1 in. strip around each shoulder.

The jerkin would seem to have particular application for personnel engaged in fire-fighting, rail and road maintenance and accident rescue work on fast roads such as the new motorways now coming into use.

Jeltek Ltd.,
Green-lane, Hounslow, Middlesex.

6. Roofing

The Depot interior showing the laminated timber beams and trough decking

At the Longsight Electrification Depot, Manchester, completed recently for British Railways as part of their modernisation scheme, interesting use has been made of LAMINATED TIMBER and steel 'D' type trough decking. The depot consists of a main shed 300 ft. long x 59 ft. wide clear span, provided with two rows of pits for inspection and servicing.

The laminated portal frames, to a clear span of 56 ft. 6 in. set at 15 ft. centres, support timber purlins which, in turn, carry an Anderson roof decking and patent glazing. The portal frames were shop fabricated from stress graded Columbian pine bonded with Resorcinol resin glue to the appropriate profile and each frame was delivered to the site in two sections, halved at the apex, ready for bolting together on the site. The natural timber finish and pale green roof decking give a clean, practical appearance to the interior.

Kingston (Architectural Craftsmen), Ltd.,
Minster Works, Clough-road, Hull.

7. Sealers

In newly constructed buildings, the forming of damp patches on interior walls invariably cause stains which are difficult to remove. With this problem in mind, a SEALER has been produced which not only covers the stain but gives a good surface for the subsequent application of wallpaper or paint. The product can be applied to plaster, brickwork, stone, concrete or other surfaces free from loose and flaking paint or distemper films.

Before applying the sealer, wall surfaces should be cleaned down and made free from dust, and the wall should be reasonably dry. The covering capacity will vary with the type and nature of the surface, but, on average, one pint should cover between 60 and 70 sq. ft.

J. Manger & Son,
57 High-street, Kingsland, E8.

News in Brief

Housing and the Cost of Land

A SPECIAL COMMITTEE is to be set up by Farnham (Surrey) Urban Council to report on the implications of the rising cost of land in relation to the housing waiting list, and the Council's own land requirements for all types of development in the next five years. The Council is also to ask the Minister of Housing and Local Government to consider how the present land prices situation can be brought under control.

Mr. L. C. Brookes, a Labour member, told the Council recently that 277 local families were in urgent need of housing, and there was an additional applicant almost every day. 'It is big business that is creating the shortage,' he said. 'Authentic local builders are being outbid at auction sales of land. When the Minister of Housing releases some green belt land for development, will it be released to land speculators or to local government?'

High Land Prices at Leeds

THE MANOR HOUSE ESTATE of 12¼ acres at Moor Allerton, North Leeds was sold by auction on October 11 for £59,000, an average of nearly £6,000 an acre of available building land. The buyers were George Wimpey and Co. Ltd. The estate has been released for private development by the Planning Committee of Leeds Corporation. Planning permission has been given for blocks of flats up to 8 storeys high with a garage for each dwelling.

A Dose of Epsom Salts

IT IS BELIEVED that deposits of Epsom salts in the ground are undermining the foundations of St. Helier Hospital, Carshalton, Surrey.

The building, which suffered from the effects of bombing during the war, is being examined says the chairman, Mrs. M. Walkden, in her annual report, to ascertain the extent of the damage. Mrs. Walkden says that the salts have apparently set up a chemical reaction with the concrete which may finally destroy it.

About £50,000 is to be spent on repairing the brickwork and the parapets.

Margate Civic Centre

PLANS for a multi-million pound scheme to include a new civic centre for Margate, will be placed before the Town Council at its next meeting. It envisages the demolition and rebuilding of 30 acres of the town centre in the Cecil-square area. The first phase, which is scheduled for completion within six years, is to include a civic centre costing up to £½m. and containing a town hall, law courts, library, and offices. A complete new shopping centre is to be built, with a multi-storey garage, a drive-in bank, and a new ring road. 70 properties, including 30 shops, 18 offices, two public houses and a number of boarding houses, are to be demolished.

Industrial Training Council

MR. G. H. LOWTHIAN, MBE, was elected chairman of the Industrial Training Council at a meeting of the Council on October 11. He succeeds Lord McCorquodale, who has been the chairman of the Council since it was set up in July, 1958. Mr. Lowthian is the General Secretary of the Amalgamated Union of Building Trade Workers and a member of the General Council of the TUC. He was one of the TUC representatives on the sub-committee of the National Joint Advisory Council on Recruitment and Training of Young Workers in Industry (the Carr Committee). The Council also decided to convene a conference of representatives from organisations on both sides of industry to discuss preparations for the training of the 'bulge' in school leavers entering employment next year and in the following two years. The conference will be held in London on November 29 and the Minister of Labour and the Secretary of State for Scotland have accepted invitations to address it.

Trade News

Selling Rights

D. SEARLE PRODUCTS LTD., have been granted the right to manufacture and sell Nordia Unit Kitchens in this country. Their address is now at 37 Store-st., London, WC1.

Canadian Fir Plywood

THE PLYWOOD MANUFACTURERS' ASSOCIATION, of 4 Carmelite-street, EC4, announce that Douglas fir plywood, previously grade-named 'Underlay Sheathing,' has been re-named and will in future be designated throughout the trade as 'Select Sheathing.' This does not in any way alter the grade specifications as previously set out in Canadian Standard Specifications 0121—1957.

New Aerated Concrete Factory

WORK HAS STARTED on the construction by John Laing and Son Ltd. of a new factory for Thermalite Ytong Ltd. at Agecroft, Manchester, for the mass-production of Thermalite high pressure steam-cured aerated concrete. Further factories are to be erected shortly at Grays (Essex) and Blyth (Northumberland), and plans are well advanced for a factory at Uskmouth (Newport, Mon.), serving South Wales and the South-West of England.

Plastics Exhibition at Birmingham

THE plastics division of Imperial Chemical Industries Ltd. is to hold an exhibition entitled 'An Architect Looks at "Perspex"' in Birmingham on October 26 and 27. Consisting of the latest designs in colourful baths and basins, sinks and domelights (some of them moulded in the Birmingham area), the exhibition includes an entirely new idea, the 'Bink.' This is a 'Perspex' sink and drainer fitted on top of a bath, which is designed for use in houses and flats where there is no bathroom. There will also be experimental models of new developments in 'Perspex' which are not yet in commercial production. The exhibition is to be held at Britannia House, 50 Great Charles-street. Architects and builders are being invited from 6.15 p.m.; they will see a short film and hear a brief talk on 'Perspex' baths and sink units.

New Factory Extensions

EXTENSIONS WHICH ADD more than 100,000 sq. ft. of factory space to Messrs. Whitlock Bros. Ltd. Works at Great Yeldham, Essex, were officially opened on September 15. The new extensions include a fibre glass manufacturing department, new spares, servicing and stores departments, production offices, a power house, washrooms, a lithographic printing department and a new assembly shop covering nearly 3 acres. Two 10-ton gantry cranes, each of 50-ft. span, run the length of the main building which, to accommodate them, is over 40 ft. in height.

The occasion also marked the introduction of a complete new range of Whitlock earthmoving equipment and in the two weeks during which the new machines were demonstrated, nearly a thousand people from this country and overseas came along to see them.

Company News

ACROW (ENGINEERS) LTD. recommend the payment of a final dividend of 12½ per cent for the year ended March 31, 1960.

Personal Column

The Tarmac Group of Companies have appointed MR. W. N. COOK a director of TG Construction Co. Ltd. Mr. Cook was previously with Wilson Lovatt & Sons Ltd.

Bowmaker Ltd., Bournemouth, announce that MR. G. R. WALTER, hitherto manager at Carlisle, is now manager of the company's branch at 102 Hope-street, Glasgow. (Tel.: Central 9144). MR. J. A. STONE has left Taunton, where he was assistant manager, to take up duties as assistant manager at Wolverhampton — Birch-hse., Birch-st. (Tel.: Wolverhampton 23032. MR. M. F. J. THOMPSON, hitherto representative at Newcastle, is now at Whitehaven—77 Lowther-st. (Tel.: Whitehaven 340), in the capacity of resident representative.

MR. FRANK C. LEIGH has been appointed general sales manager of the Plastics Division of The Telegraph Construction and Maintenance Co. Ltd.

Tarmac Roadstone Ltd. have appointed MR. T. C. CLINCH and MR. W. E. WITCHELL as local directors in the southern division, and MR. R. SMITH in the central division of the company.

The standard steel building division of Sanders & Forster Ltd., the structural steelwork company of the Chamberlain Group of Companies with headquarters at 3 Buckingham Palace-gardens, SW1, reports that one of its senior directors, MR. M. H. BRIGGS, OBE, BSC(ENG), is visiting Canada to see existing agents, clients and certain contractors with whom it is hoped to negotiate 'packaged deal' steel building transactions. Mr. Briggs, who will be staying at Toronto, Montreal, and Halifax, will be returning towards the end of the month.

From Britain's most go-ahead paint manufacturers

THREE BROLAC PACE-SETTERS

Brolac P·E·P

—the only 'GO-ANYWHERE' emulsion paint

This paint is already an outstanding success only six months from its introduction. This is because it lives up so well to the remarkable claims made for it—that it can be used IN ANY ROOM and ON ANY SOUND SURFACE, glossy or flat, OUTSIDE and INSIDE. The extra adhesion that Brolac P.E.P. derives from its unique Vinyl Co-Polymer base means that this emulsion paint is suitable for use even in kitchens and bathrooms and on outdoor surfaces. It can also be used over high gloss enamel without the need to rub down.

Brolac GLOSS ENAMEL

Brolac Gloss Enamel is based on a well-proven Pentalkyd modified with Tung Oil. This produces a tough and tenacious film with outstanding water- and weather-resisting properties—it will withstand condensation and the effects of salt water and corrosive atmospheres. Brolac flows easily and smoothly under the brush and dries with a hard, china-like gloss. It can be applied coat-on-coat or over Brolac undercoat.

Brolac COLORVOGUE

—plus the John Hall Technical and Colour Service

Both Brolac P.E.P. and Brolac Gloss come in complementary trade colour ranges as well as the recommended BS.2660 shades. These colours are augmented by 100 attractive Brolac Colorvogue tints. Colour and specification problems should be referred to the John Hall Technical and Colour Advisory Bureau at Bristol—whose colour schemes have a high rate of acceptance from specifying authorities.

John Hall & Sons (Bristol & London) Ltd.

Hengrove, Bristol 4. 1-5 St. Pancras Way, NW1. 26 Park Row, Leeds 1.

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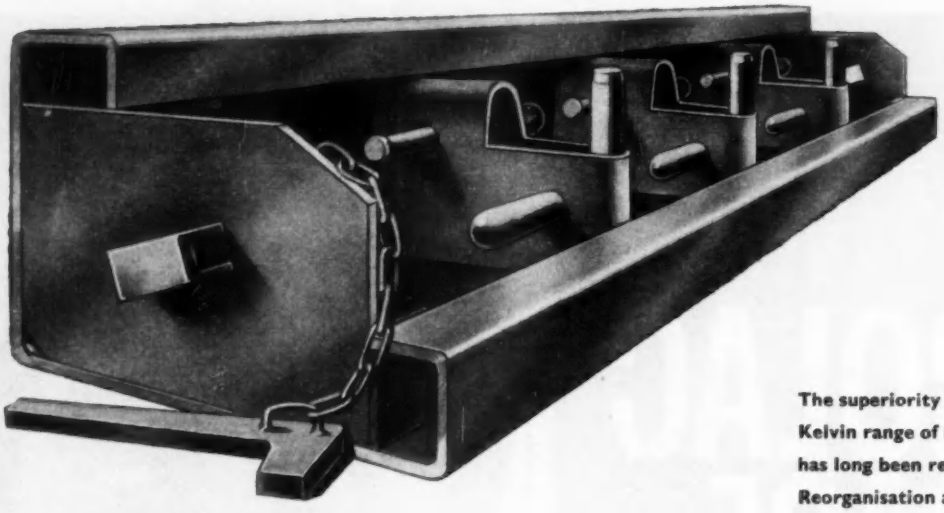

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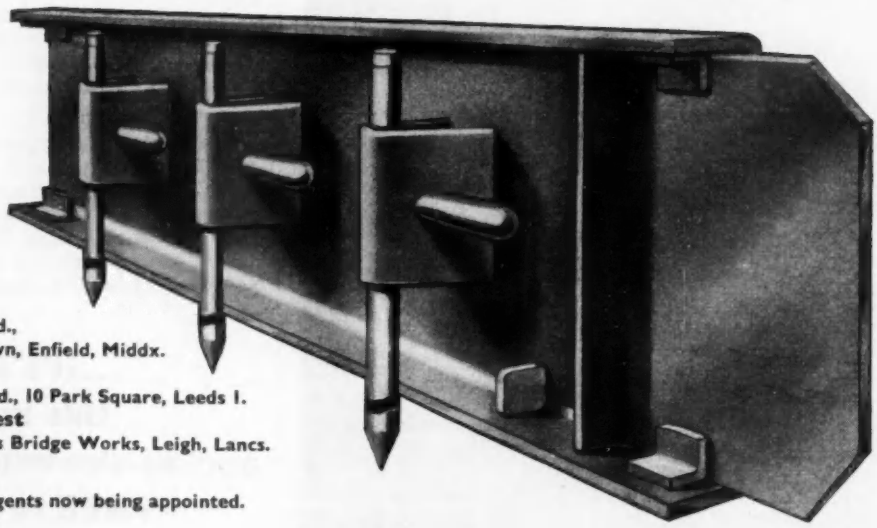

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OVERSEAS BUILDING

From Our Own Correspondents

AUSTRALIA (QUEENSLAND).—The State Government is to undertake a record school building programme entailing an outlay of £4m. It includes the provision of new high and primary schools, and extensions to existing buildings. Key projects comprise the £150,000 Townsville University Centre and the £¼m. Teachers' Training College at Kedron, Brisbane, both to open in 1961. . . . A 16-storey block of home units costing £½m. will be built on the banks of the Brisbane River within ½ mile of the Indooroopilly Tollbridge, Brisbane. It will contain 64 units and be erected in a natural bush and garden setting having a swimming pool, wharves and waterskiing facilities. The block is expected to be completed within a year, and is being constructed for the Phoenix Land and Investment Co. Pty. Ltd.

CANADA (ALBERTA).—Construction of the new $7m. Waterton River Dam project is to commence immediately. Completion is scheduled for 1964. . . . Contracts have been let for the construction of the first 351 miles of the 1,404-mile natural gas pipeline from Alberta to California. . . . Federated Pipe Lines Ltd. has awarded a $2m. contract for a 36.5 mile loop to its Swan Hills-Edmonton pipeline.

CANADA (BRITISH COLUMBIA).—A $40m. construction programme has been announced for the construction of pipelines in south-eastern BC. . . . The Provincial government has called for tenders for the erection of the steel superstructure for the new Kootenay River Bridge. . . . A new bridge, with a centre span of 476 ft. and two side spans of 218 ft. each, is to be constructed over the Fraser River at Chimney Creek.

CANADA (MANITOBA).—The Provincial Government has announced construction plans for two dams to cost $19m. in conjunction with the International Joint Commission. One dam will be near Morden, Southern Manitoba and the other on the US side of the Pembina River at Walhalla ND. . . . The Imperial Tobacco Co. Ltd. is to construct a large office building and warehouse at St. James. . . . Work on the Whiteshell Nuclear Research Station is to commence early next year.

CANADA (NOVA SCOTIA).—Colchester County has been suggested at the site for the $10m. civil defence communications centre to control eastern Canada. . . . A $9m. shopping centre is to be constructed by Webb and Knapp (Canada) Ltd., in the west end of Halifax.

CANADA (ONTARIO).—North American Life Assurance Co. has announced plans to construct a $6m. head office building in Toronto. . . . Plans are now being drawn to double the capacity of the Welland Canal. The estimated cost of the project is $150m. and will call for twin locks and a twin canal alongside the present one. . . . A $20m. office skyscraper and shopping centre is planned for downtown Hamilton. British capital is believed to be involved. . . . A multi-million dollar project involving the construction of one bonded warehouse on a 41-acre site, and three other warehouses with a total 1m. ft. of storage space, has been announced for the Windsor dock area. . . . Construction is scheduled to commence this year on a $4m., 262-room hotel at Toronto's Malton Airport. . . . Benson & Hedges (Canada) Ltd. is to construct a $2m. factory at the Peel Village Industrial Park, Brampton. . . . The Hershey Chocolate Co. is to construct a $7m. plant in Smith Falls. . . . British Government offices are to be constructed in Ottawa on the site of the old Grand Union Hotel. . . . 100 acres of land at Kitchener have been acquired by the Goodrich Rubber Company to construct a $7m. plant. . . . The Imperial Oil Co. is to construct a $5m. plant at Sarnia for chemical production.

CANADA (QUEBEC).—Construction of a $2.5m. aromatics extraction plant for the British American Oil Co. has been announced. The plant will be built at the company's Montreal East refinery. . . . Canadian Industries Ltd. is to construct a $3.5m. addition to its research laboratory at McMasterville.

CANADA (SASKATCHEWAN). — A $1m. extension is to be constructed to St. Andrew's College, Saskatoon. . . . A combination warehouse and retail store, to cost approximately $1m. is to be constructed in Regina by the Provincial Liquor Control Board.

SOUTHERN RHODESIA.—During the next few weeks tenders to the value of more than £2m. will be invited for work in the Bulawayo area. The Town Council is also expecting Government approval for the £1¼m. Inyankuni Dam scheme. This is the first stage in a scheme for building two dams, one on the Inyankuni River and the other on the Insiza, which will eventually involve investment of about £8m.

Overseas Contracts, a Record Figure

SPEAKING at the Contractors' Plant Association dinner at the Dorchester Hotel, London, W1, on October 11, the Postmaster-General, THE RT. HON. REGINALD BEVINS, MP, congratulated the contracting industries on their continued success in overseas markets. In the twelve months ended March, 1960, he said, British contractors carried out work overseas at the record figure of £124m. Projects completed, or in the course of being carried through, included the Auckland Bridge, New Zealand, the Tema Harbour, Ghana, a large steelworks at Durgatur in India, the Furnas, a hydro-electric scheme in Brazil, and a deep water harbour in Barbados.

St. Kitts Delegation in London

A DELEGATION representing the Government of St. Kitts-Nevis-Anguilla, led by the Chief Minister, visited London for financial talks with the Colonial Office on September 26. During the visit discussions revolved round the new broadcasting station, the proposed new hospital, the St. Kitts Airport terminal building, and the electricity and telephone schemes.

SCOTTISH BUILDER

Civil Engineering Safety Course

THE SCOTTISH section of the Federation of Civil Engineering Contractors staged the first civil engineering safety training course in Scotland at Granton in mid-October. Thirty supervisory and younger engineers from civil engineering firms in Scotland attended the course, lasting two days, at the Ministry of Labour centre to hear lectures on safety techniques. Lecturers were drawn from the Factory Inspectorate and the civil engineering industry. Similar courses will be held in April and May, 1961.

Coast Erosion

FACED WITH the problem of large-scale coast erosion, Aberdeen Council's Links and Parks Committee has voted £432,000 on protective works to extend from opposite the Beach Ballroom to the mouth of the Don, as part of a comprehensive plan to protect the frontage.

Green Belt Proposals Criticised

PROPOSALS CONTAINED in Glasgow's Quinquennial Review of the city's development plan for an effective green belt are totally inadequate, according to representations made by Renfrew County Council to the Secretary of State for Scotland.

In the objections submitted to the county council at their meeting in Paisley recently it was stated that the Glasgow Corporation proposals were a violation of the principles set out by the Department of Health for Scotland. The council claim that the proposals do not provide positively for the retention of effective and adequate green belts, and accordingly would have an adverse effect on the satisfactory planning of the Clyde Valley region.

Six-Storey Academy for Annan

DUMFRIESSHIRE County Council's Education Committee have decided to proceed with the erection of a new Academy at Annan. The proposals provide for the erection of a classroom block of six-storeys on a new site and the replacement of the existing buildings with new administrative, technical, and gymnasia blocks.

Greenock Dock Construction

THE FIRTH OF CLYDE DRY DOCK CO., a consortium of shipbuilding and engineering companies in the West of Scotland, have announced that work will begin in three months' time on the construction of the graving dock, ship repair centre and tanker cleaning installations at the Great Harbour, Greenock. Total cost will be £4,250,000, with the Government providing £2,850,000. Tenders will be issued shortly. The repair and tanker cleaning section will be launched initially and should be in use in two years' time. The dock will be completed in 1964.

Paisley Piazza Plan Passed

PAISLEY'S PLAN to bridge the River White Cart, and erect a shopping piazza with 50 shops, a theatre, hotel, restaurant and other facilities at a cost of £2 million, has been given approval in principle by the Secretary of State for Scotland. The area covers the river between Gauze-street and the railway viaduct, giving a 190-yard stretch of water to be bridged. The east bank will be developed commercially and the west bank has already been zoned for commercial development. Under the plan the existing civic buildings, police headquarters, gaol and a theatre, will be demolished and the ground made available for an 'imaginative' and modern shopping centre. Car parking facilities will be incorporated to allow shopping by car, in line with current trends.

The work will be undertaken by a Glasgow development company, with which the Town Council has a 'gentleman's agreement.' In the light of the permission now granted, it is intended to have early meetings and to go ahead with the planning of the scheme. Work should start in 1961.

Art Gallery Extensions, Glasgow

PLANS FOR increasing the size of the Glasgow Art Gallery and Museum at Kelvingrove are being considered by Glasgow Corporation. Estimated to cost £1½m., the extensions are claimed to be the biggest ever proposed for a municipal gallery in Britain and the first at Kelvingrove since the gallery was opened in 1902.

New Buildings

LANARK.—CC propose 16 dwellings and two garages at Bellside, Cleland.

PAISLEY.—Plans for new carpet factory at Caledonian-st. for A. M. S. Stoddard & Co. Ltd. have been passed by the Dean of Guild Court. Cost is est. at £46,000.

Scottish Wages

Wages for craftsmen, labourers, apprentices and young male labourers in Scotland will be found in the Rates of Wages tables, shown this week on page 762. Scottish wages will not in future be shown separately.

THE BUILDER CONSTRUCTION NEWS

Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those preceded by the symbol (A) are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. The symbol (R) preceding each entry indicates that applications must be received by this date.

BUILDING

OCTOBER 25

(AR) BIRMINGHAM CITY C.—Firm price tenders for: (a) 13 one- and two-storey dwellings at Bunbury-rd., Northfield; (b) 10 shops and dwellings over Wyrley Birch estate, Erdington; (c) three shops and dwellings over Millpool Hill estate, Warstock; (d) eight dwellings and one shop at Pool farm estate, Kings Norton; (e) 11 dwellings at Adams Hill, Bartley Green. City A. Dep. £2 2s. (each contract). Tenders by Nov. 25.

(AR) CAMBRIDGE CITY C.—Fixed price tenders for 32 flats for old people and 14 houses. City S. Dep. £2 2s. Tenders by Nov. 28.

(AR) CUMBERNAULD DEVELOPMENT CORPN.—Erection of 113 houses of four basic types, with variations, and 33 garages, one sub-station, one shop, etc., at Muirhead 3 (housing) development. Ch. A & Planning Officer.

(AR) HAMPSHIRE CC.—Fixed price tenders for proposed new infant sch. at Cowplain. County T. Dep. £2 2s.

OCTOBER 26

(AR) ROTHERHAM CBC.—Council to invite during next two months tenders for the erection of following buildings: Two-bay fire sub-station/30 aged persons' flats/120 houses and flats/aged persons' hostel for 36 people/child welfare clinic. Boro' E. Dep. £5 5s.

OCTOBER 27

(AR) HAMPSHIRE CC.—Erection of Dibden Purlieu jun. sch. County T. Dep. £2 2s.

(AR) SURREY CC.—Proposed extension to Richmond, Ham., Meadlands county prim. sch. (Broughton-ave.). County A.

OCTOBER 28

(AR) EAST SUSSEX CC.—Provision of a sanitary block, kitchen and boiler house at Chiddingly county prim. sch. County A.

(AR) GATESHEAD CBC.—(a) Erection of 232 dwellings in four-storey maisonettes in MH&LG 'Crosswall' construction, and five aged persons' bungalows, etc., for Chandless redevelopment area (phase II); (b) erection of 12 old people's dwellings in two single-storey terrace blocks and one block of four two-storey three-bed. dwellings, and six four-bed. houses, at Mendip-gdns., Lobley Hill; (c) erection of 30 old people's dwellings at Yetholm-rd.; (d) erection of 52 dwellings at Rectory site, Bensham-rd. Boro' S. Dep. £5 5s., £3 3s., £3 3s., £5 5s., respectively.

(AR) MACCLESFIELD BC.—Erection of 91 dwellings at Weston. Boro' A.

(AR) MITCHAM BC.—Extension and alteration of 'Little Glebelands,' Love-la., Mitcham, to provide ten one-room flats for old people. Boro' E&S. Tenders by Nov. 18.

(AR) THORNABY-ON-TEES BC.—Erection of 19 old people's bungalows at Lascelles estate, Lanehouse-rd. TC. Dep. £2 2s. Tenders by Nov. 12.

OCTOBER 29

(AR) ESSEX CC.—Firm price tenders for: (a) New branch library at Gidea Park, Romford. (b) Extensions and adaptations at Thundersley county jun. sch. County A. (separate applications).

OCTOBER 31

(AR) BIRMINGHAM CITY C.—Firm price tenders for a multi-storey car park and public conveniences at corner of Holliday-st. and Bridge-st. City A.

(AR) NORTHUMBERLAND CC.—Erection of three practical rooms and one classroom at Walbottle campus site, nr. Newcastle-on-Tyne. County A. Dep. £2 2s.

(AR) PLYMOUTH CITY C.—(a) Erection of 24 old people's flatlets and one warden's flat at Godwin-ave., Southway. (b) Erection of an open-air sch. at Whitleigh. City A. Dep. £3 3s. (each contract).

NOVEMBER 2

(AR) DURHAM CC.—Alterations and adaptations at Eppleton colliery mod. sch. County A.

NOVEMBER 4

(AR) BATH CITY C.—Erection of 40 garages, three pairs of houses and two four-storey blocks, each containing 16 flats, at Twerton/Whiteway estate. City Planning Officer & Architect. Dep. £2 2s. Tenders by Dec. 14.

(AR) HEREFORDSHIRE CC.—Following for Training College, Hereford: (a) extensive alterations repairs and redecorations to existing buildings including electrical installation and conversion of existing heating plant; (b) new works including attached classrooms and laboratories, detached two-storey assembly hall/gymnasium changing and common rooms, hostel block, principal's house, garages, etc. County A. Dep. £3 3s.

(AR) LUTON BC.—Fixed price tenders for a new central library. Boro' A.

(AR) WORCESTERSHIRE CC.—Erection of Martley sec. sch., nr. Worcester. County A.

NOVEMBER 5

(AR) BROMLEY BC.—Erection of 104 flats and 55 garages at Turpington-la. Boro' E.

NOVEMBER 7

(A) CHINGFORD BC.—Conversion of a house into two flats. Boro' E. Dep. £2 2s.

LIMERICK CORPN.—Construction of 40 houses at Garryowen-Pennywell Link-rd. housing scheme, with necessary development works. Corpn. A, Rutland-rd., Limerick. Dep. £10.

NOVEMBER 8

(A) BOOTLE CBC.—Proposed sch. meals kitchens at: (a) Bootle grammar/technical sch., Bridge-la., Netherton, and (b) The Countess of Derby sec. sch. for girls, Brownsla., Netherton. Boro' E. Dep. £2 2s.

(A) HESTON & ISLEWORTH BC.—Erection of second stage of branch library at Burnham-gdns., Cranford. Boro' E&S. Dep. £2 2s.

NOVEMBER 9

(A) BOURNEMOUTH CBC.—Fixed price tenders for 75 beach bungalows at Alum Chine/Durely Chine/Undercliffe-dr. Boro' A. Dep. £1 1s.

NOVEMBER 11

(A) CANTERBURY CITY C.—Fixed price tenders for 29 units of accommodation at Artillery-st., and Military-rd. City A. Dep. £2 2s.

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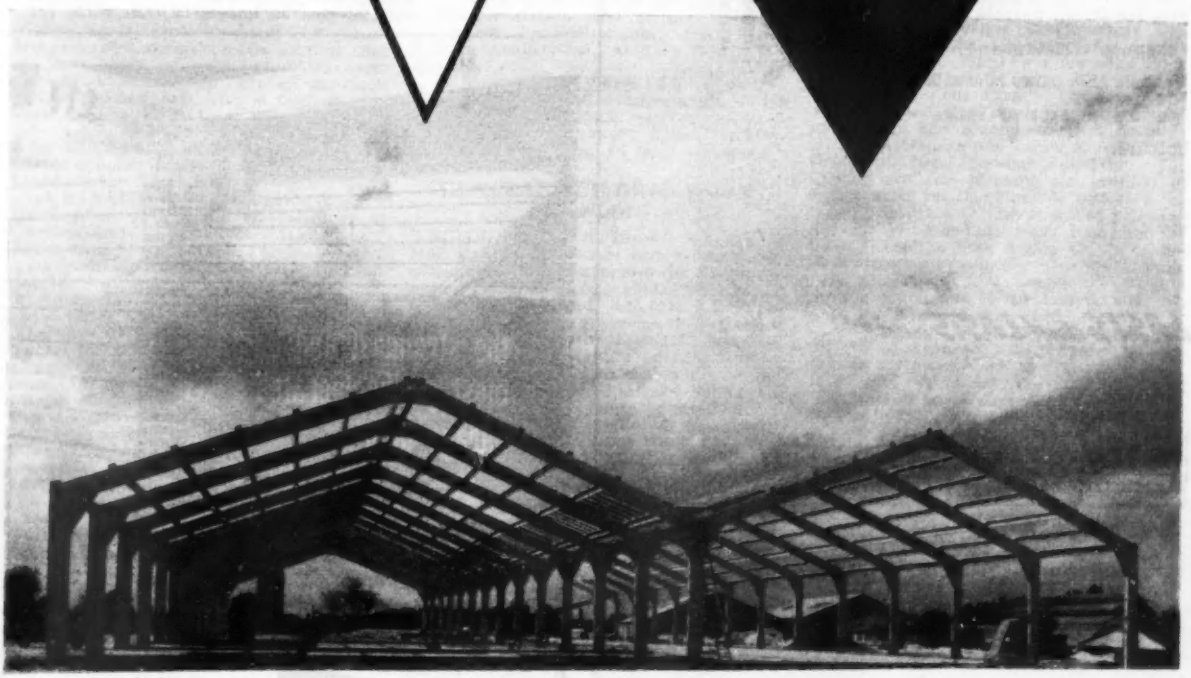

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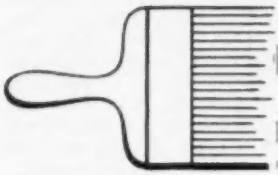

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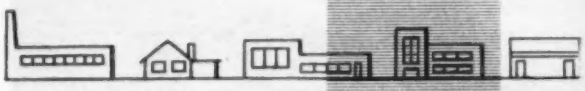

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(A) GILLINGHAM BC.—Fixed price tenders for 20 houses and 12 garages at Henley-close, Rainham, Kent (Stratford estate, stage 3). Boro' E. Dep. £5 5s.

(AR) MITCHAM BC. — Extension and alteration of 'Sibford,' Lower Green West, to provide 24 one-room flats for old people. Boro' E&S. Tenders by Dec. 2.

(A) SUNDERLAND CBC. — Erection of additional classrooms and alterations to staff lavatory accommodation at Havelock jun. mixed sch. Boro' A. Dep. £2 2s.

(A) UXBRIDGE BC.—Erection of meeting hall at Long-la., Hillingdon. Boro' S. Dep. £2 2s.

NOVEMBER 12

(A) WARMINSTER & WESTBURY RDC. —Erection of: (a) Four single-bed. flats and four houses of two-bed. and two three-bed. houses at Chitterne; (b) four single-bed. flats at Steeple Ashton; (c) six pairs of three-bed. houses and five terraces of three-bed. houses at Godford. Clerk to C. Dep. £2 2s. (each contract).

NOVEMBER 14

DUBLIN.—Erection and completion of a new pathological laboratory and mortuary building at Sir Patrick Dun's Hospital, Dublin. Buchan, Kane & Foley, architects, 59 Merrion-sq., Dublin. Dep. £10.

(AR) EAST SUSSEX CC.—Erection of a four-classroom sch. (Barcombe CoE controlled). County A.

(A) MALVERN UDC.—Fixed price tenders for seven pairs of bungalows at Old Hollow, West Malvern. S & Water E. Dep. £2 2s.

SALFORD CITY C.—Firm price tenders for proposed conversion of Park-la. Police Station into section house and married quarters at Bury New-rd., Salford 7. City E&S. Dep. £2 2s.

NOVEMBER 17

(A) REIGATE BC.—Fixed price tenders for: (a) 12 maisonettes and 10 garages at Cromwell-rd. estate, Redhill. (b) 12 maisonettes and two old people's bungalows, 14 stores and 12 garages at Colesmead-rd., Redhill. Boro' S. Dep. £2 2s. (each contract).

NOVEMBER 18

(A) BOURNEMOUTH CBC.—Fixed price tenders for: (a) Three blocks of 12 two-bed. flats, etc., at Cunningham-cres. central site; (b) three blocks of eight bed./sitting room flats, etc., at Fernheath-rd. site; (c) one block of four one-bed. flats, etc., at Gort-rd. site. Boro' A. Dep. £2 2s. (each contract).

NOVEMBER 21

(A) BRIGHOUSE BC.—Fixed price tenders for old people's dwellings and roads, etc., at Laverlock-la. Boro' E&S.

(A) HAVANT & WATERLOO UDC.—Fixed price tenders for 68 dwellings at Cunningham-rd. / Boyle-cres. / Hamble-la. / Annes-cres. (Waterlooville). E&S.

(A) HEMEL HEMPSTEAD BC.—(a) Erection of 15 two-storey houses at Wood-cres. (b) Alterations and additions at works depot, Cupid Green. Boro' E&S.

(A) ROCHESTER CITY C.—Fixed price tenders for: (a) 38 three-bed. houses and 42 garages at Warren Wood redevelopment (stage 5). (b) 63 three-bed. houses and 45 garages at Earl estate (part 1C). City S. Dep. £3 3s. (each contract).

NOVEMBER 22

(A) CHELMSFORD BC.—Fixed price tenders for 26 old people's flats at Meadgate estate, Great Baddow. Boro' E. Dep. £2 2s.

DECEMBER 22

(A) EAST RIDING OF YORKSHIRE CC. —(a) Erection of a three-form entry county sec. sch. at Norton, East Yorks. (b) Erection of a home for aged persons at Norton, East Yorks. County A. Dep. £2 2s. (each contract).

NO DATE

(A) TUNBRIDGE WELLS RBC.—Erection of 126 dwellings at Sherwood estate. Boro' S & Waterworks E.

SERVICES, PAINTING, MATERIALS, ETC.

OCTOBER 28

(A) SURBITON BC.—Redecoration of various rooms at the Surbiton assembly rooms. Boro' E&S.

NOVEMBER 11

(A) SUNDERLAND CBC.—Following for Monkwearmouth comprehensive sch.: (a) supply and laying of terrazzo pavings; (b) wood block and strip floorings; (c) cork linoleum and vinyl tile flooring. Boro' A.

Contracts Placed

We are glad to receive from architects and quantity surveyors for publication details of contracts placed to the value of £20,000 or over. Such information should reach the Editor as soon as possible after the contract is signed. Names of the architect and other consultants associated should be given.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

OCTOBER 28

(R) ST. IVES (Hunts.) BC.—Construction of extensions to the existing Pound Ground sewage disposal works. Howard Humphreys & Sons, Ccl's constg. engrs., West-st., Epsom. Dep. £5 5s. Tenders by Nov. 7.

NOVEMBER 1

READING CBC.—Construction of 4,500 sq. yd. of footways, etc., at Burghfield-rd. housing estate. Boro' S. Dep. £2 2s.

NOVEMBER 7

HUDDERSFIELD CBC.—Construction of approx. 3,500 sq. yd. of pitched carriageways, 1,300 lin. yd. of kerbing, 2,900 sq. yd. of concrete flagging, 350 lin. yd. of 9/15 in. dia. sewer, and ancillary works, at Solendine Nook estate/Standforth estate. Boro' E&S. Dep. £2 2s.

NOVEMBER 10

BATTLE RDC.—Construction of approx. 475 yd. of 7 in., and 3,060 yd. of 6 in. stoneware/concrete sewers, including manholes, etc.; 350 yd. of 5 in. S1 pumping main and a divertor station; and sewage treatment works, etc., for Sedlescombe. John Taylor & Sons, Artillery-hse., Artillery Row, SW1. Dep. £5.

NOVEMBER 22

CARDIFF CITY C.—Construction of the Llandegfedd impounding reservoir. Rofe & Raffety, engrs., 9 Brewer's Green, Buckingham Gate, SW1. Dep. £5 5s.

GENERAL BUILDING WORK (LONDON)

ACTON.—New Buildings.—Subject to MoE approval, and loan and planning permission, Middx. CC approves the erection of a new clinic and child guidance centre at Avenue-rd. Est. cost £35,425. . . . The Council have also approved the extension and adaptation of the Bromyard sec. sch., at an est. cost of £191,569. This development is again subject to MoE approval, etc.

EALING.—School Buildings.—Middx. CC have, subject to MoE approval and loan and planning permission, approved the erection of new buildings for Little Ealing sec. boys' sch. Est. cost £170,451.

ENFIELD.—School Building.—Subject to the approval of the MoE, and loan and planning consent, Middx. CC authorises Enfield BC to arrange for the alteration and extension of the Durants Day special sch. Est. cost £22,760.

HESTON & ISLEWORTH. — School Rebuilding.—Subject to MoE approval, and consent to loan and planning permission, Middx. CC approves the erection of a hall and kitchen under phase I of the rebuilding of Heston and Isleworth, Spring Grove, prim. sch., at an estimated cost of £19,140.

SOUTHGATE. — School Extensions. — Middx. CC, subject to the approval of the MoE, and consent to loan and planning permission, authorises the second phase extensions of the Oakwood sec. sch. Estimated cost, £118 700.

STAINES.—Erection of School.—Middx. CC, subject to MoE approval, any necessary consent to loan, and to the terms of the Special Agreement with the Trustees of the Roman Catholic Diocese of Westminster, authorises expenditure of £981 for the provision of a larger kitchen and additional equipment, and £400 for the fencing of the playing field boundaries, in addition to the sum of £133,559, previously authorised in respect of its liability in connection with the erection of Staines, Ashford, Cardinal Godfrey RC (Special Agreement) sec. sch.

TOTTENHAM.—School Buildings.—Subject to the approval of the MoE, and consent to loan and planning permission, Middx. CC approves the erection of new buildings for the Tottenham county sch., at an est. cost of £306,015.

(PROVINCIAL)

ACCRINGTON.—The Arndale Property Trust Ltd. are to build a £500,000 shopping centre on a 40,000 sq. ft. site they have leased from the Corporation on Broadway, Accrington. The new development will provide a total of 100,000 sq ft of shopping and storage space on three floors.

ALDERSHOT.—A new 600-bed hospital to be built as the principal hospital for the Farnham (Surrey) Group, which embraces Farnham, Camberley, Aldershot, Farnborough and Fleet. The site chosen is at Willems Barracks, adjacent to the site of the proposed Aldershot civic centre. The MoH and the Regional Hospital Bd. are negotiating with the War Office, but it is not expected the site will be available before 1963.

ALTRINCHAM.—BC propose erection of public slaughterhouse at Moss-la.

ARMAGH.—Munce & Kennedy, 133 University-st., Belfast, are the architects for a covered swimming pool for City C. Est. £50,000.

BACUP.—Corpn. is to build 29 dwellings, costing £40 919, on the Tunstead-rd. estate.

BASINGSTOKE.—Rural District Development Sub-Com. of Hants. CC has approved the use of waste land at Village Hall, Monk Sherborne, for a car park, and have granted outline permission to proposal by Montgomerie Reid Engineering Co. Ltd. to extend existing light engineering works at Cufaude-la., Bramley.

BELFAST.—Olivetree Developments Ltd. have completed the demolition of buildings in Chichester-st. Plans for a new office block there are going out to tender.

BELFORD.—The County Planning Com. have approved RDC's scheme for the construction of new council offices at Burnside estate. Architects are Turley & Associates, 46 Jesmond-rd., Newcastle-on-Tyne. The Council are also planning the erection of eight houses on the Burnside estate.

BERKSHIRE.—CC has approved proposed line for Windsor-Eton relief road and the joint promotion with Bucks. CC of a Bill to construct a new bridge over the Thames.

BINGLEY.—M. & V. Shackleton Ltd. propose erection of 10 sd houses and one detached house at Falcon-rd.

BIRKENHEAD.—Stylewear Manufacturing Co. (Birkenhead) Ltd. propose the erection of a storage block at Star-st.

BISHOP AUCKLAND.—UDC Surveyor (F. Mole) is to prepare plans for the erection of houses on Coundon cricket field. . . . Atcost Ltd., Duke-st., Darlington, are to extend their factory at St. Helen's trading estate.

BLYTH.—Blyth Corpn., owners of Croft Park football ground, are considering a £20,000 scheme for the provision of improved dressing and spectator accommodation.

BOGNOR REGIS.—A two-storey block of six luxury flats, each with two bedrooms and a balcony, are to be built on a site in High-st. Architect is J. Godfrey-Gilbert, of Bognor.

BOURNEMOUTH.—TC has approved the erection of sports-pavilion, est. to cost £23,838 at Meyrick Park, and the enlargement of Russell-Cotes Art Gallery and Museum, est. to cost £36,500.

BRADFORD.—Appleyards of Leeds Ltd. propose the erection of petrol filling station, motor showroom, offices and services depot, at Queen's-rd. Viaduct. . . . RC Auth. propose erection of a sec. mod. sch. at Eccleshill. Following for TC: Child welfare/maternity/School and health service clinic at Allerton; subsidiary clinic at Wood Side estate; grammar technical sch. at Belle Vue; phase I of John-st. market redevelopment scheme.

BRAMHALL.—Manchester TC propose housing overspill site.

BRIGHOUSE.—BC propose conversion and improvement to the Savoy Cinema. Est. £20,000. . . . Thornhill Yorkshire Estate Co. propose housing development at Slade-la./Carr Green-la.

BRIMINGTON.—E. C. Rippon Ltd. propose housing development at Station-rd.

BURY.—BC propose new fire station at Wellington-rd.

BUXTON.—D. S. West propose erection of showroom and garage at London-rd. . . . Whaley Bridge & Buxton Co-op. Society Ltd. propose office extensions at Byron-st. . . . F. A. Higgins & L. Brocklehurst propose bakery on site of The Red Lion. . . . Otter Controls Ltd. propose factory extensions at Hardwick-sq. south. . . . N. E. Gill propose slaughterhouse off Tongue-la.

CHAPEL-EN-LE-FRITH.—RDC propose erection of 27 dwellings. . . . Chapel Town FC propose erection of spectator stand at Rowton Park.

CHESTER.—Fred Cowley Ltd. propose office extensions at Watergate-st. . . . Following for BC: Public conveniences at Lower Bridge-st.; crematorium at Blacon Cemetary.

CHESTER.—TC propose major redevelopment at Princess-st./Town Hall-sq./Hamilton-pl./Trinity-st.

CHESTER - LE - STREET. — RDC has approved in principle the proposed housing developments at Ouston by Wm. Leech (Builders) Ltd. . . . UDC has received MH&LG approval to erect 143 houses and 54 garages at West-la. estate.

CHESTER-LE-STREET. — Howardsgate Holdings Ltd., Welwyn Garden City, are planning the erection of warehouse, offices, and garage at Pelaw Hill Farm. . . . Kodak Ltd., Wealdstone, Middlesex, are to erect a distribution depot and have prepared their own plans.

CHESTERFIELD.—RC Auth. propose extensions to St. Mary's RC sec. sch., Cross-st., and the erection of three Catholic prim. schools at Newbold/Cross-st./Derby-rd. . . . R. Brown (Gleadless) Ltd. propose housing development at Charnock Dale-rd.

COLNE.—The Visi-Chick Brooder Co. Ltd. propose factory extensions at Bradford Mill. Est. £30,000. . . . Neilson Ice Cream & Frozen Food Co. Ltd. propose an ice cream distribution depot at White Walls industrial estate. Est. £100,000.

DARLINGTON.—Sketch plans have been prepared for the erection of a departmental walk-round store at Tubwell Row for Darlington Co-op. and Industrial Society Ltd. Plans are by the CWS Architects' Dept., 90 Westmorland-rd., Newcastle-on-Tyne.

DARLINGTON.—RDC has approved plans for RC prim. sch. at Central-ave., Newton Aycliffe, and erection of a three-storey block of five aged persons' flats and five maisonettes at Kenny Walk, Newton Aycliffe, for Aycliffe Development Corpn. . . . RDC approved outline scheme for a proposed motel at Aycliffe.

DURHAM.—RDC is to borrow £15,507 for the erection of 12 bungalows at Pittington. Council is also seeking approval for the erection of houses on nine acres of land at Cornforth-la., Coxhoe.

DURHAM.—R. E. Coleman Ltd., builders and contractors, Carrville, are to erect 68 houses at Carrville.

FELLING (Co. Durham).—Firms wishing to tender for the erection of swimming baths on the Leam Lane estate are asked to submit their names to the UDC. Work on the scheme is expected to start next spring, and is expected to cost £200,000. J. H. Napper & Partner, 133 Osborne-rd., Newcastle-on-Tyne, architects.

FLEET (Hants).—Freer Fans Ltd. have applied for permission to use land at Fleet Mill, Minley-rd., for erection of a single-storey factory building. . . . MH&LG has consented to appropriation of approx. 1,845 acres of land adjoining The Views for erection of old people's flatlets. Planning application is to be made.

GATESHEAD.—TC has approved in principle a £20,000 scheme for the construction of an old people's luncheon club at Wrekenton. A grant covering the whole cost has been offered by the King George VIth Foundation. Borough E is G. F. Winters.

GLAMORGAN.—CC are to replace the old court buildings in Caerphilly, with a modern courthouse, which will cost £40,000. The building, which is to be sited on Mountain-rd., Caerphilly, will contain a magistrates court, a juvenile court and accommodation for probation and other legal officers.

GREATHAM (Co. Durham).—Factory extensions are proposed for Cerebos Ltd. Architect is L. Auton, Regent-bldgs., York-st., West Hartlepool.

HARROGATE.—Methodist Auth's. propose erection of new Church at Woodlands. Est. £20,000.

HEXHAM.—UDC has received sanction to purchase 5½ acres of land at Causry Hill for housing purposes.

HOLMFIRTH.—UDC propose 2nd phase of Town Hall reconstruction.

JARROW.—Smith Gore & Co., 81 Bondgate, Darlington, have prepared a scheme for housing developments on seven acres of land at Hedworth Town Farm for the Church Commissioners.

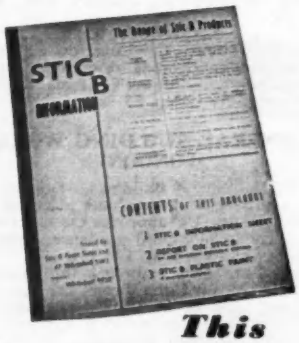
KEIGHLEY.—BC propose erection of 192 flats in 12-storey blocks at Broom-st.

LANCS.—EC propose extensions to following schools:— Carrhead county sec., Poulton-le-Fylde; Dowdale county sec., Dalton-in-Furness; sec. sch., Thornton Cleveleys; Carr Hill county sec., Kirkham.

LEEDS.—TC propose erection of 35 blocks multi-storey flats on seven housing estates in Camp-rd., re-development area.

LLANDUDNO.—BC propose extensions at Happy Valley open air theatre. Est. £20,000. . . . Mostyn Estates Ltd. propose erection of bus station at Conway-rd.

LIVERPOOL.—Midland Bank Ltd. propose extensions to bank premises at Everton-rd. . . . Duttons Ltd. propose erection of printing works at Pall Mall. . . . Lord-st. Investments Ltd. propose erection of a 16-storey building at Queen-sq. . . . John J. Denton Ltd. propose shop extensions at Williamson-sq. . . . The Fire Salvage Association of Liverpool Ltd. propose new headquarters at Derby-rd.



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LONGRIDGE.—UDC propose development of allotment site for housing purposes.

LYDD (Kent).—BC has given provisional approval for new estate of 250 bungalows on 22-acre site south of Maddieson's holiday Camp. Developer is H. R. Maddieson, High-st., Lydd.

MANCHESTER.—Cantor's Ltd. propose erection of 3-storey furniture showrooms after demolition of existing at Oldham-st. . . . James Walker & Co. Ltd. propose warehouse extension at Walsall-rd., Northenden. . . . Following for TC: Erection of four family group homes at Cheadle & Marple; old people's club at Barmouth-st., Beswick; housing development at Alders-rd./Greenwood-rd., Wythenshawe; extensions at Manchester Training College; extensions at sec. sch., Cheetham Hill; extensions at sec. sch., Miles Platting; erection of maternity, child welfare and dental clinic at Collyhurst; new training college at Parrs Wood for 600 men/women; county sec. sch. at Fairfield Golf Course, Gorton; technical high sch. at Nell-la., West Didsbury. Special schools programme:— Wythenshawe day special school and day school for physically handicapped pupils; youth service building programme facilities at Higner Blackley/Gorton/Woodhouse Park. . . . Following for Regional Hospital Bd.: Improved patients' accommodation at Southfield Maternity, Bowden, Ches.; autoclave building at Rochdale Infirmary; alterations to provide nurses' accommodation at Victoria Hospital, Blackpool; upgrading wards at Fairfield General Hospital, Bury; improvements to casualty dept. at Victoria Memorial Jewish Hospital, Manchester; new out-patients' dept. at Sharoe Green, Fulwood; replacement hospital at Salford Royal; new general hospital at Preston; new hospital at Cheadle; new general hospital at Davenham; new maternity unit at Macclesfied Hospital; acute psychiatric unit at Withington Hospital.

MARKET DRAYTON.—UDC propose erection of flats at Stafford-st.

MATLOCK.—Henry Boot & Son (Builders) Ltd. propose erection of eight houses at Dimple-rd. . . . International Tea Stores Ltd. propose erection of self-service store at Firs Parade. . . . Following for UDC: Exterior improvements at Grand Pavilion; 122 dwellings/20 flats at Hurst Farm estate.

MIDDLESBROUGH.—Tees Valley and Cleveland Water Bd., Corporation-rd., Middlesbrough, have invited the following firms to submit tenders for the proposed Balderhead reservoir, est. to cost £3,000,000: Balfour, Beatty and Co. Ltd.; Richard Costain Ltd.; W. and C. French, Ltd.; Sir A. McAlpine and Son, Ltd.; Mitchell Construction Ltd.; John Mowlem and Co. Ltd.; Edmund Nuttall, Sons and Co. Ltd.; Reed and Mallik Ltd.; Tarmac Civil Engineering Ltd.; Wimpey and Co. Ltd.; A. E. Parr Ltd.; John Laing and Son Ltd.; and Whatlings Ltd. Consulting engineers are Edward Sandeman, Kennard & Partners, 171 Victoria-st., London, SW1.

MIDDLESBROUGH.—Jordison & Co. Ltd., Marton-rd., Middlesbrough, propose new works and offices at Longlands-rd. . . . Plans have been approved for a new dept. of physical medicine at Middlesbrough General Hospital for Newcastle Regional Hospital Bd. . . . MoE has approved the EC's scheme for extensions to Constantine Technical College at a cost of £745,000. No detailed plans have yet been prepared. . . . The Corpn. Housing Com. has provisionally allocated a site at Berwick Hills for a proposed district centre to include swimming baths, health centre, branch library, community centre, etc.

MORPETH.—J. & J. W. Hall Ltd., plant hirers and civil engineering contractors, are to erect new offices on their Clifton Colliery premises.

NEWBURY.—RDC has approved plans for a sch. at Chapel-rd., Stockcross, for Speen Parochial School Managers.

NEWCASTLE-ON-TYNE.—M. & H. Gatoff, 26 Mosley-st., Newcastle, have prepared plans for showroom extensions at Blandford-st. for the Bryerlite Electric Co. . . . Williamson & Partners, 7 St. Mary's-pl., Newcastle, have prepared plans for additions to ward 8 at

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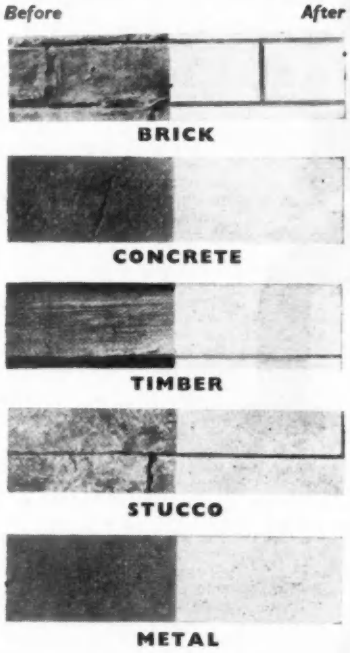

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Walkergate Hospital for Newcastle Hospital Bd.

NOTTINGHAM.—CC propose erection of old people's and youth club at Derby-rd.

OLDHAM.—BC propose erection of sch. for sub-normal children at Fitton Hill.

PADIHAM.—UDC propose erection of 24 aged persons' flatlets.

PADIHAM.—Lancs. EC propose erection of county sec. sch.

PENDLE, Lancs.—Lancs. EC propose county library service headquarters.

PENRITH.—UDC are to sell land near Holme Riggs-ave. to John Laing and Sons, Dalston-rd., Carlisle, for the erection of 20 houses.

PEPPARD.—Oxford Regional Hospital Bd. has approved major development scheme at Borocourt Hospital for the mentally retarded. Est. £836,390.

PEWSEY (Wilts.).—RDC are seeking special allocation of further 30 dwellings for erection in North Tidworth as part of the 1960 programme.

PORTSMOUTH.—Docks & Airport Com. has approved in principle the Langstone Harbour development scheme. Cost is £31,000.

RIPON.—TC propose erection of 20 dwellings at Oak-rd.

RUNCORN.—Ches. CC propose extensions and alterations at police station. . . . St. Michael & All Angels Parochial CC propose housing development at Moughland-la. . . . Runcorn & Widnes Co-op Soc. Ltd. propose site redevelopment at Church-st. for offices/showroom/stores. . . . J. L. James proposes erection of 16 sd bungalows at Picow Farm-rd.

SALISBURY.—MH&LG has informed the City C that subject to approval by 31/12/60, schemes for provision of 20 dwellings on Bishopdown estate and 20 dwellings on the St. Francis hut site, Stratford-rd., could be included in Council's 1960 proposals.

SKIPTON. — UDC propose housing development, after demolition, at Newmarket-st. . . . West Riding EC propose phase II of Aireville county sec. sch. Est. £169,280. . . . North & Lamb propose housing development at Addingham.

SLYNE-WITH-HEST.—CoE Auth. propose erection of infant/jun. sch.

SONNING (Berks.).—Oxon. CC is considering construction of new bridge to cross the Thames in the vicinity of Sonning.

SOUTHAMPTON.—MoE has approved major building programme for 1962-3 in respect of: Bellemoor county sec. (£230,249); extensions to Itchen grammar (£70,092); Moorhill prim. (£30,702).

STOCKTON-ON-TEES.—The North Tees-side Hospital Management Com. has asked Newcastle-on-Tyne Regional Hospital Bd., Benfield-rd., Newcastle, to give priority to the construction of a new x-ray dept. at the Stockton and Thornaby Hospital. . . . T. Cowie, Millfield, Sunderland, is to erect a garage and service bay at Thomas-st., Stockton. . . . Ashmore, Benson Pease and Co. Ltd. are to extend their engineering works at Bowesfield-la., Stockton.

STOKE-ON-TRENT.—TC propose erection of police headquarters at Hanley.

STRETFORD.—BC propose community centre and swimming bath, at Ripon-rd. . . . Bracegirdle Motors Ltd. propose offices, showrooms and store extension at Upper Chorlton-rd. . . . Massey-Ferguson (Gt. Britain) Ltd. propose office extensions at Barton Dock-rd.

SUNDERLAND.—A RC Church is to be built at Hylton for the Diocese of Hexham and Newcastle-on-Tyne. Architects are Stienlet & Son, 4 Queens-sq., Newcastle-on-Tyne.

SUNDERLAND.—TC has been offered a MoT grant of £44,160 towards the cost of widening Washington-rd., and £32,416 for major improvements in Dame Dorothy-st.

SUTTON-IN-ASHFIELD.—UDC propose housing development in Huthwaite area.

TUNBRIDGE WELLS (Kent).—MH & LG has, on appeal, granted outline permission to Ajax Properties Ltd. to build 56 £7,000 'business and managerial' type houses on 25 acres of Sandown Park, Tunbridge Wells.

TYNEMOUTH.—TC is in touch with Gregory Housing Ltd., Worthing, regarding the proposed erection of council houses on the Moor Park estate. . . . Details have been submitted to the TC of a plan for the erection of a 10-storey block of luxury flats—87 in all—at East-st. Architects are Cotton, Ballard & Blow. . . . Detailed plans are to be prepared for the fourth stage of the East End (North Shields) redevelopment scheme. It is proposed to erect a three-storey block, comprising six shops and six maisonettes, and two blocks of 12 flats and 14 maisonettes. . . . Plans are to be prepared by J. Smeds for the erection of houses in Borough-rd. for the TC. Mr. Smeds has also prepared plans for a new subnormal school.

WALLINGFORD (Berks.).—Mr. W. J. Curtis is seeking outline planning permission to build over 700 houses on 80 acres of land to the north and south sides of Wantage-rd.

WEST HARTLEPOOL.—The Expanded Metal Co. Ltd. are to carry out considerable extensions to their works for the development of new products for the building industry, and the development of their r.c. interests.

WIGAN.—Lancs. EC propose erection of CP sch. at Worsley Mesnes. . . . RC Auth. propose new prim. sch. at Worsley Mesnes, and a new infants' sch. at St. Edward's, Newtown. . . . CoE Auth. propose remodelling sec. mod. sch. at All Saints. . . . Sons of Divine Providence propose new seminary at Upholland Est. £120,000.

WILTS.—MoE has approved major building programme for 1962-3 as follows: New schools — Malmesbury county grammar, £135,575; Downton county sec., £111,805; Trowbridge RC sec., £118,309; Calne Guthries CoE prim., £50,512; Tidworth county infants, £45,100; and six new schools at Swindon. Extensions—Devizes Southbroom county sec., £72,000; South Wilts grammar, Salisbury, £54,000. Gross cost of approved projects is £1,223,696.

WIMBORNE.—Mr. G. H. Crowther is seeking planning permission to build 150 flats, shops, offices and supermarket on Millbank car park.

WINCHESTER.—City C has approved: (a) proposal of Trust Houses Ltd. to build 79-bedroom hotel on the Cathedral car park site and (b) plans for improvements at public library, including restoration of facade of north frontage to Jewry-st. (in principle), est. £12,500.

WINDERMERE. — Lakeland Buildings Ltd. propose erection of a three-storey block of 12 flats at Mylnbeck Lake-rd.

TENDERS

(A) Denotes *accepted*.
(PA) Denotes *provisionally accepted*.
(RA) Denotes *recommended for acceptance*.
(AM) Denotes *accepted subject to modification*.
(GD) Denotes *accepted subject to approval by appropriate Government Department*.

ACCRINGTON.—Erection of covered market for BC. (A) A. Monk & Co. Ltd., Padgate, nr. Warrington, £173,677.

ARMAGH.—Improvements to Collone county prim. sch. for Co. EC. (A) A. A. Quinn, The Square, Tandragee, £11,150.

BARNSLEY.—1st phase of Cog Rolling Mills at Grange-la., for C. C. G. Carlisle & Co. Ltd. (A) Dyson & Co., Sheffield.

BISHOP AUCKLAND.—Erection of 85 houses and nine old people's bungalows at Woodhouse-close for UDC. (A) Bell & Ridley Ltd., North-rd., Durham, £122,641.

BOLTON.—Block of shops and offices at Victoria-sq. for The Arndale Property Trust Ltd. (A) Leslie & Co. Ltd., Bradford.

BRADFORD.—Adaptations to Institute of Technology for TC. (A) Higgs & Hill Ltd., Leeds, £26,552.

BRENTWOOD (Essex).—Extension of factory for Thermos Ltd., Leyton, E10. William Clarke & Ptnrs., architects. (A) Allen Fairhead & Sons Ltd. Est. £400,000.

BURNLEY.—Sterilising block and operating theatre extension at General Hospital for Manchester Regional Hospital Bd. (A) Mullen & Durkin Ltd., Burnley, £21,366.

CARLISLE.—Erection of garages at Central-ave. and Tarnside for City C. (A) Eden Construction Co. Ltd., Carlisle, £15,920.

DARLINGTON. — Factory extensions (20,000 sq. ft.) at Aycliffe trading estate for Underground Mining Machinery Ltd., 54 Victoria-st., London, SW1. Architects are Fennell and Baddiley, Bridge End-chbrs., Chester-le-Street, Co. Durham. (A) George Stephenson (Builders and Contractors) Ltd., Chester-st., Bishop Auckland.

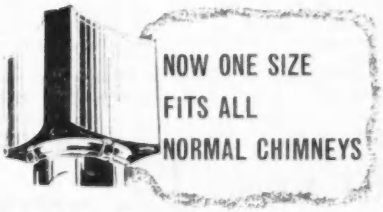
DURHAM.—Following for City C.: Proposed new grammar sch. at Ryhope. (A) M. D. Lilley & Son, Murton, Co. Durham, £153,381. Construction of Easington Technical College (stage II), and Peterlee branch library. Cordingley & McIntyre, Owengate, architects. (A) Crudens Ltd., Musselburgh, Scotland, £245,359 (in lieu of tender withdrawn). Engineering services in connection with new campus sch. at Billingham (gen. contrs.: Wimpey & Co. Ltd.). (A) E. Dixon Barker & Son, West Hartlepool, £92,400.

LIVERPOOL.—New factory at Speke Boulevard for Whiteley Lang & Neill Ltd., Manchester 15. (A) J. Jarvis & Sons Ltd., Sale, Ches.

(GD) LONDON (Air Ministry).—Contracts to the value of £4,000 or over for week ended October 14: *Building work:* Finningley, Yorks.; J. Dixon (Doncaster) Ltd., Greenfield-la., Balby, Doncaster, Yorks.—North Coates, Lincs.; R. M. Phillips & Son Ltd., Estate Yard, Brigg, Lincs.—Waddington, Lincs.; W. & J. Simons Ltd., Friars-la., Lincoln. *Artificers' work:* Bridgnorth (Shropshire), etc.; Lewis & Watters Ltd., Lime-ave., Lillington, Leamington Spa, Warwickshire.—Mepal, Ely, Cambridgeshire; Monkman (Cambridge) Ltd., Oakington, Cambridge.—Dyce (Aberdeen), etc., Scotland; George Taylor & Sons, 1 Newton-ter., Bucksburn, Aberdeen, Scotland. *Painting work:* Stradishall, Newmarket, Suffolk; Donald Humberstone & Co. Ltd., North Somercotes, Louth, Lincs.—West Malling, Maidstone, Kent; Spraycraft Co. Ltd., 101-102 Palace-rd., Bromley, Kent.—Valley, Mona & Holyhead, Anglesey; Seddon (Stoke) Ltd., 55 Duke-st., Fenton, Stoke-on-Trent, Staffs.—North Weald, Essex; South London Decorators Ltd., 9/11 Streatham High-rd., London, SW16.

(GD) LONDON (British Railways).—Recent contracts placed by London Midland Region: Construction of diesel training sch. at motive power depot, Derby; Vic. Hallam (Contractors) Ltd., Nottingham. Construction of engine balancing tables building at Locomotive Works, Derby; J. H. Fryer Ltd., Derby. Accommodation for Chief Civil Engineer's dept., Hampstead-rd., NW1; Holland and Hannen & Cubitts (Great Britain) Ltd., London, SW1. Cleaning and painting of bridges on the Chester/Holyhead line and Derby North district; Carmichael Edwards & Co. Ltd., Manchester 5. Main roof repairs and renewal of roof glazing at Manchester Central Station; Industrial Engineering Ltd., London, SW1.

(GD) LONDON (MoW).—Contracts placed for week ended October 8: *Cambridgeshire:* Erection of motor transport workshop at telephone exchange centre, Cambridge.



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Coulson & Son, Ltd., 37 St. Andrews-st., Cambridge. *Gloucestershire:* Internal decorations at station sorting office, Cattlemarket-rd., Bristol; C. A. Hayes & Son, Ltd., Storkhse., Hotwells, Bristol 8. *Lancashire:* Alterations at Inland Revenue, Royal Liver-bldg., Liverpool; J. Tomkinson & Co., Ltd., 22 Roscommon-st., Liverpool 5. *London:* Attendance on MoW engineers at British Museum, WC1; Clemens Bros., Ltd., 77 Derby-rd., Forest Gate, E7. Electric lighting and power installation at Marlborough-hse.; James Scott & Co. (Elec. Engrs.) Ltd., 20 Grosvenor-pl., London, SW1. *Norfolk:* Erection of houses at Her Majesty's Prison, Norwich; J. Youngs & Son, Ltd., 2A City-rd., Norwich. *Staffordshire:* Re-felting roofs of various buildings at Ministry of Aviation, storage depot, Featherstone; Highways Construction, Ltd., 2 Hartopp-rd., Alum Rock, Birmingham 8.

(GD) LONDON (War Dept.).—Contracts placed for week ended October 7: *Cumberland:* Building at Carlisle; J. Laing & Son Ltd., Carlisle. *Co. Down:* Miscellaneous at Waringfield; William McMullan & Son, Belfast. *Dorset:* Building at Piddlehinton; Arthur Parsons & Sons Dorchester. *Essex:* Building at Colchester; W. & C. French Ltd., Buckhurst Hill. *Hampshire:* Building at Tidworth; A. J. Dunning & Sons (Weyhill) Ltd., Andover. Roofing at Portsmouth; Maurice Hill Ltd., Horndean. *Merionethshire:* Painting at Tonfanau camp; Thomas E. Talbot & Son Ltd., Burslem. *Northumberland:* Building at Newcastle-on-Tyne; John Roxby Surtees Ltd., Blackhill. *Nottinghamshire:* Roadwork at Chilwell; Constable Hart & Co. Ltd., Derby. *Shropshire:* Roadwork at Donnington; Constable Hart & Co. Ltd., Derby.

MANCHESTER. — Following for TC: Erection of 370 dwellings at Blackley New-rd. (A) Roy & Ptnrs., Ltd., Salford. Erection of 24 dwellings, six garages and six shops at Miles Platting Redevelopment area. (A) Direct labour. Erection of phase I of new civic centre at Wythenshawe. (A) W. Fearnley & Sons (Salford) Ltd. New premises at Ducie Technical high sch. for boys. (A) W. Fearnley & Sons (Salford) Ltd.

MIDDLESBROUGH. — Additions to Stainsby sec. sch. for EC. (A) Smith and Twentyman Ltd., 32 Bridge-rd., Stockton. £30 336.

NORTHERN IRELAND MINISTRY OF FINANCE.—Construction and completion of head post office at High-st., Omagh. (A) J. A. Gamble, Dock-st., Strabane.

NUNEATON.—Erection of new central library at Church-st. for BC. Frederick Gibberd, FRIBA, Percy-st., London, W1, architect. Oswald A. Wainwright and Ptnrs., quantity surveyors.

W. H. Jones & Son	£80,982
Thomas Lowe & Sons Ltd.	81,902
Gilbert-Ash Ltd.	81,680
J. Miller & Ptnrs. Ltd.	82,557
(A) G. E. & W. Wincott Ltd. ...	80,037

RUNCORN.—Erection of new factory for J. & P. Jacobs Ltd. (A) James E. Turner Ltd., £53,045.

SCARBOROUGH.—Reconstruction of the southern outfall sewer (Stage 2) for TC. (A) Tarmac Civil Engineering Ltd., Stockton-on-Tees, £49,869.

SEDGLEY.—Erection of 65 dwellings at Hillcrest, Round Hill, Turners Hill, and Valley-rd. for UDC. (A) Gregory Housing Ltd., Worthing, £107,366.

SOUTHALL (Middx.).—Erection of chassis inspection and despatch building, and parking areas, for AEC Ltd. (A) George Wimpey & Co., Ltd., £185,000.

STAFFORDSHIRE.—Diversion of the Worcester - Wolverhampton - Stafford trunk road (A449) from the Village of Battlefield in Staffs., for CC. (A) Tarmac Group of Companies, £115,000.

STOKE-ON-TRENT. — Erection of 52 dwellings at Longton Hall-rd. for TC. (A) Direct labour, £75,590.

SUNDERLAND.—Widening of Washington-rd. for TC. (A) R. T. Haley & Co. Ltd., Hunsworth, Cleckheaton, Yorkshire, £52,245.

SWINTON & PENDLEBURY.—Erection of 70 houses and six blocks of four flats, with roads and sewers, at Beehive estate, Clifton, Lancs., for BC. Boro' E&S is Charles R. Smith. Quantities by E. R. Babbs & Sons, Manchester. (GD) G. & J. Seddon Ltd., Coronation-bldgs., Little Hulton, Walkden, nr. Manchester, £167,300.

TIPTON.—Erection of 90 flats in three six-storey blocks at Groveland-rd. site for BC. (A) Wates Ltd., London, SW16, £222,923.

TYNEMOUTH.—Extension to coast road between Tynemouth and Newcastle for CBC. (A) George Wimpey & Co., Ltd., £176,000.

WALLSEND.—Erection of a new berth at shipyard for Swan, Hunter & Wigham Richardson Ltd. (A) Balfour, Beatty & Co. Ltd. Est. £300,000.

WEST HARTLEPOOL.—Proposed alterations and additions to the high sch. for girls for EC. L. Auton, Regent-bldgs., York-rd., West Hartlepool, architects. Elliott & Darcy, Wilton-rd., West Hartlepool, quantity surveyors. (A) Tarslag Ltd., Bowesfield-la., Stockton-on-Tees, £95,000.

YORK.—Fixed price tenders for: (a) 82 dwellings at Chapel Fields estate, and (b) 72 brick garages on six sites in York for City C. City A is E. Firth. (A) Sorrell (York) Ltd., £119,290 and £15,558, respectively.—Erection of 13 flats at Albert-sq., Walmgate, for City C. (A) Sorrell (York) Ltd., £19,774.

UNITE FOR STRENGTH

THE FEDERATION OF MASTER BUILDERS

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THE JIFFY SECRET WEDGE NAIL FOR WALLBOARD
NO MORE UGLY NAIL HEADS OR HAMMER MARKS
Inserted with a tool holding a pack of 50 nails at one loading.
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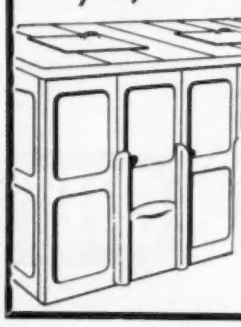

A three-fold saving—of space, of material, and of erection time! And therefore a big saving of cost. Yes, these 'Alborough' Coal Bunker Multiples in prefabricated concrete are assuredly the perfect Fuel Storers for the Housing estate. Individual capacities range from 5 to 30 cwts., and Multiples can be of any number. Have details sent you.
A.B.C.D. (Raynes Park) LTD.
34/35 Alpha Road, SURBITON, Surrey
Telephone: ELMbridge 6591/3.

OFFICIAL ANNOUNCEMENTS

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ATTENTION ADVERTISERS

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

CONTRACTS

WARMINSTER AND WESTBURY
RURAL DISTRICT COUNCIL.

HOMEVILLE TRADITIONAL HOUSING UNITS.

TENDERS are invited for all or any of the following contracts :—

(a) *Chitterne.* ONE BLOCK OF FOUR SINGLE-BEDROOM FLATS. Type 1F1/B and ONE BLOCK OF FOUR HOUSES CONSISTING OF TWO TWO-BEDROOM and TWO THREE-BEDROOM HOUSES. Type 2H/1—2HT/2 TOGETHER WITH ANCILLARY WORKS.

(b) *Steeple Ashton.* ONE BLOCK OF FOUR SINGLE-BEDROOM FLATS. Type 1F1/B TOGETHER WITH ANCILLARY WORKS.

(c) *Heywood.* SIX PAIRS OF SEMI-DETACHED THREE-BEDROOM HOUSES. Type 3H/6, and FIVE TERRACES OF THREE THREE-BEDROOM HOUSES. Type 3H/6, TOGETHER WITH ANCILLARY WORKS.

(d) *Codford.* TWO BLOCKS OF FOUR SINGLE-BEDROOM FLATS. Type 1F1/B, TWO PAIRS OF SEMI-DETACHED TWO-BEDROOM HOUSES. Type 2H/1, TWO PAIRS OF SEMI-DETACHED THREE-BEDROOM HOUSES. Type 3H/6, and ONE TERRACE OF THREE THREE-BEDROOM HOUSES. Type 3H6/3H6T TOGETHER WITH ANCILLARY WORKS.

Documents obtainable from the Clerk to the Council, Craven House, Warminster, Wiltshire, on deposit of two guineas, which will be refunded after receipt of a bona fide Tender and the return of Tender documents. Tenders to be posted to the Clerk to arrive not later than SATURDAY, 12th NOVEMBER, 1960. The lowest or any Tender may not be accepted.

W. LAMBETH,
Clerk.

Craven House,
Warminster,
Wiltshire.
11th October, 1960.

WORCESTERSHIRE
COUNTY COUNCIL.

Contractors are invited to apply for permission to TENDER for the ERECTION OF MARTLEY SECONDARY SCHOOL, near Worcester.

Applications should reach L. C. Lomas, F.R.I.B.A., County Architect, 14 Castle-street, Worcester, not later than 4th NOVEMBER, 1960, and where contractors applying have not previously carried out major works under the County Architect, they are required to submit details of single contracts costing at least £100,000, which they have completed recently, together with the names of the Architects responsible.

(E.159.)

BOURNEMOUTH
COUNTY BOROUGH.

TO BUILDING CONTRACTORS.

TENDERS are invited, on a "fixed price" basis, for the ERECTION OF 75 NO. BEACH BUNGALOWS situated as follows :—

46 No. at West Promenade, Alum Chine, Bournemouth.

24 No. at West Promenade, Durley Chine, Bournemouth.

5 No. at Beach Office, Undercliff Drive, Bournemouth.

Plans, specification and Forms of Tender may be obtained from and conditions of contract inspected at the Borough Architect's Office, Room 106, Town Hall, Bournemouth, on payment of one guinea, refundable on receipt of a bona fide Tender, not subsequently withdrawn, and the return of all documents supplied.

Tenders to be received by me not later than 10 a.m. 9th NOVEMBER, 1960.

A. LINDSAY CLEGG,
Town Clerk.

HEMEL HEMPSTEAD
BOROUGH COUNCIL.

CUPID-GREEN DEPOT—ALTERATIONS AND ADDITIONS.

The Corporation invite TENDERS for the ALTERATIONS AND ADDITIONS, at their Works Depot, Cupid-green, Hemel Hempstead, comprising the following:—

(a) TWO NEW STAFF HOUSES.
(b) NEW SINGLE-STOREY ADMINISTRATIVE BLOCK.
(c) ALTERATIONS TO PROVIDE WELFARE BLOCK.
(d) ANCILLARY WORKS.

Tender documents will be available on the 21st October, 1960 and persons desiring to submit Tenders should apply at once to A. H. Turner, A.M.I.C.E., Borough Engineer and Surveyor, High-street, Hemel Hempstead, at whose office the drawings and conditions of contract may be inspected during normal working hours.

Tenders, in the envelope provided, must be delivered to me not later than 12 NOON on MONDAY, 21st NOVEMBER, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender and acceptance of a Tender will be subject to its approval by the Ministry of Housing and Local Government.

C. W. G. T. KIRK,
Town Clerk.

Town Hall,
High-street,
Hemel Hempstead.

SALFORD CITY.

PROPOSED CONVERSION OF POLICE STATION INTO SECTION HOUSE AND MARRIED QUARTERS.

Firm price TENDERS are invited for the PROPOSED CONVERSION OF PARK-LANE POLICE STATION INTO SECTION HOUSE AND MARRIED QUARTERS, 464 Bury New-road, Salford, 7.

Conditions of Contract and Drawings may be inspected at, and Bill of Quantities and Form of Firm-Price Tender obtained from, The City Engineer and Surveyor's Department, Town Hall, Salford, 3, on payment of a deposit of £2 2s. 0d., which will be returned on submission of a bona fide Firm Price Tender not subsequently withdrawn.

Firm Price Tenders on the prescribed Form, sealed in the envelope provided and bearing no other mark or identification, must be forwarded to the undersigned so as to be received not later than 10 a.m. on MONDAY, 14th NOVEMBER, 1960.

The Council does not bind itself to accept the lowest or any Firm Price Tender.

R. RIBBLESDALE THORNTON,
Town Clerk.

HEMEL HEMPSTEAD
BOROUGH COUNCIL.

WOOD-CRESCENT—EAST SIDE.

The Corporation invite TENDERS for the ERECTION OF 15 TWO-STOREY HOUSES in Wood-crescent, Hemel Hempstead.

Tender documents will be available on the 21st October, 1960 and persons desiring to submit Tenders should apply at once to A. H. Turner, A.M.I.C.E., Borough Engineer and Surveyor, High-street, Hemel Hempstead, at whose office the drawings and conditions of contract may be inspected during normal working hours.

Tenders, in the envelope provided, must be delivered to me not later than 12 NOON on MONDAY, 21st NOVEMBER, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender and acceptance of a Tender will be subject to its approval by the Ministry of Housing and Local Government.

C. W. G. T. KIRK,
Town Clerk.

Town Hall,
High-street,
Hemel Hempstead.

BATH CITY.

TWERTON WHITEWAY ESTATE—CONTRACT NO. 6.
ERECTION OF 40 GARAGES, THREE PAIRS OF HOUSES AND TWO FOUR-STOREY BLOCKS EACH CONTAINING 16 FLATS.

Contractors desirous of TENDERING FOR THE ERECTION OF THE ABOVE GARAGES AND DWELLINGS should submit their names to the City Planning Officer and Architect, 7 North-parade Buildings, Bath, accompanied by £2 2s. 0d. deposit, not later than 4th November, 1960.

Bills of Quantities and Form of Tender will be forwarded on or about the 16th November, 1960 and contractors will be required to submit their Tenders not later than NOON on WEDNESDAY, 14th DECEMBER, 1960.

Drawings may be inspected at the above address.

JARED E. DIXON,
Town Clerk.

Guildhall,
Bath.

GATESHEAD
COUNTY BOROUGH.

HOUSING DEVELOPMENT.

Contractors wishing to TENDER for all or any of the following schemes are invited to submit their names, together with details of work recently carried out of comparable size and scope.

1. Chandless Redevelopment Area, Phase II—232 DWELLINGS IN 4-STOREY MAISONETTES in new-traditional Ministry of Housing crosswall construction; also 5 AGED PERSONS' BUNGALOWS and ancillary works. (Deposit—five guineas.)

2. Mendip Gardens, Lobley Hill—12 OLD PEOPLES' DWELLINGS IN 2 SINGLE-STOREY TERRACE BLOCKS and 1 BLOCK OF 4 TWO-STOREY 3-BEDROOM DWELLINGS in traditional construction; also 6 FOUR-BEDROOM HOUSES IN THREE BLOCKS rear of Moorfoot Gardens. (Deposit — three guineas.)

3. Yetholm-road—30 OLD PEOPLES' DWELLINGS IN 5 SINGLE-STOREY TERRACE BLOCKS in traditional construction. (Deposit—three guineas.)

4. Rectory Site, Bensham-road—52 DWELLINGS comprising: 21 TWO-STOREY TRADITIONAL HOUSES IN 3 BLOCKS; 20 DWELLINGS IN 1 THREE-STOREY BLOCK; 11 AGED PERSONS' BUNGALOWS, and ancillary works. (Deposit—five guineas.)

Bills of Quantities will be available in early NOVEMBER, and applications to tender should be made within 14 days of the appearance of this advertisement to the Borough Surveyor, Swinburne-street, Gateshead, 8, enclosing appropriate deposit cheque made payable to "Gateshead Corporation," which cheque will be refunded on receipt of bona fide tenders or return of the Bills.

Conditions of Contract and Drawings can be inspected at the office of the Borough Surveyor, and the successful contractors will be required to provide a Bond not exceeding 10 per cent of the value of the contract for the due and proper completion of the works.

The Council do not bind themselves to accept the lowest or any tender.

C. D. JACKSON,
Town Clerk.

Town Hall,
Gateshead, 8.

BOOTLE
COUNTY BOROUGH.

PROPOSED SCHOOL MEALS KITCHENS at

(A) BOOTLE GRAMMAR TECHNICAL SCHOOL AT BRIDGE-LANE, NETHERTON.

(B) THE COUNTESS OF DERBY SECONDARY SCHOOL FOR GIRLS AT BROWNS-LANE, NETHERTON.

Builders and Contractors desirous of TENDERING for the ERECTION of either or both of the above Kitchens are invited to submit their names and addresses to the Borough Engineer, Town Hall, Bootle, 20, Lancs., enclosing a deposit of £2 2s.

The deposit will be returned on receipt of bona fide tenders, or on the return of the documents. Drawings are available for inspection at the office of the Borough Engineer.

Tenders must be submitted to the undersigned not later than 10 a.m. on TUESDAY, 8th NOVEMBER, 1960.

HAROLD PARTINGTON,
Town Clerk.

SURREY
COUNTY COUNCIL.

TENDERS FOR PROPOSED EXTENSION TO RICHMOND, HAM, MEADLANDS COUNTY PRIMARY SCHOOL (BROUGHTON-AVENUE).

The work consists of the ERECTION IN PERMANENT CONSTRUCTION OF A SINGLE-STOREY EXTENSION TO PROVIDE THREE CLASSROOMS WITH CLOAKROOMS AND SANITATION.

Contractors wishing to TENDER should apply to the County Architect, County Hall, Kingston upon Thames, Surrey, by 27th OCTOBER, 1960.

CAMBRIDGE CITY.
TENDERS.

ARBURY-ROAD ESTATE (NORTH) CONTRACT 105.

Fixed price Tenders are invited for the ERECTION OF 32 TWO-STOREY FLATS FOR OLD PEOPLE AND 14 HOUSES.

Application for Tender documents accompanied by a deposit of two guineas should be made to the City Surveyor, The Guildhall, Cambridge, not later than 25th October, 1960. Completed Tenders are to be submitted by 28th NOVEMBER, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

ALAN H. I. SWIFT,
Town Clerk.

Guildhall,
Cambridge.

BIRMINGHAM CITY.

TO BUILDING CONTRACTORS.

CONTRACT 691—13 ONE- AND TWO-STOREY DWELLINGS, BUNBURY-ROAD, NORTHFIELD.

CONTRACT 695—10 SHOPS AND DWELLINGS OVER, WYRLEY BIRCH ESTATE, ERDINGTON.

CONTRACT 711—3 SHOPS AND DWELLINGS OVER, MILLPOOL HILL ESTATE, WARSTOCK.

CONTRACT 718—8 FOUR-STOREY DWELLINGS AND 1 SHOP, POOL FARM ESTATE, KINGS NORTON.

CONTRACT 725—11 TWO-STOREY DWELLINGS, ADAMS HILL, BARTLEY GREEN.

The House Building Committee invite FIRM PRICE TENDERS for the ERECTION OF THE ABOVE.

Bills of Quantities and Forms of Tender will be forwarded on payment of £2 2s. for each contract at the office of A. G. Sheppard Fidler, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 25th OCTOBER, 1960. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's Office during normal working hours.

The deposits will be returned on receipt of bona fide Tenders or on notification of inability to tender, together with the return of the documents not later than THREE DAYS before the date for receipt of Tenders.

Tenders, enclosed in the envelopes provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.31), Council House, Birmingham, 1, not later than 12 NOON on FRIDAY, the 25th NOVEMBER, 1960. Tenders received after that time will be rejected.

The Committe do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,
Town Clerk.

The Council House,
Birmingham, 1.

CANTERBURY CITY.

HOUSING CONTRACT.

FIXED PRICE TENDERS are invited for the ERECTION OF 29 UNITS OF ACCOMMODATION at Artillery-street and Military-road, as follows :—

2 BLOCKS OF 8 MAISONETTES
1 BLOCK OF 4 CORNER FLATS
5 NO. HOUSES, TYPE 3HTB
1 BLOCK OF 4 OLD PERSON BUNGALOWS.

Bills of Quantities can be obtained from the undersigned by payment of two guineas deposit.

Drawings and conditions of contract can be inspected at my office.

Tenders to be submitted in the endorsed envelope provided not later than FRIDAY, 11th NOVEMBER, 1960.

JOHN L. BERBIERS,
City Architect.

Municipal Buildings,
Canterbury.

HESTON AND ISLEWORTH
BOROUGH.

ERECTION OF BRANCH LIBRARY.

TENDERS are invited for the ERECTION OF THE SECOND STAGE OF A BRANCH LIBRARY at Burnham Gardens, Cranford, comprising Reference and Reading Rooms and Juvenile Section.

Firms wishing to tender should apply to the Borough Engineer and Surveyor, 88 Lampton-road, Hounslow, with a deposit of £2 2s. to be refunded on receipt of a bona fide Tender. Bills of Quantities and Tender Forms will be forwarded to applicants on request.

Tenders must be received by the undersigned in the envelope provided by noon 8th NOVEMBER, 1960.

The Council are not bound to accept any Tender.

D. MATHIESON,
Town Clerk.

Town Hall,
Hounslow,
Middlesex.

MACCLESFIELD
BOROUGH.

HOUSING SCHEME 10 D.
91 DWELLINGS AT WESTON.

Contractors wishing to TENDER for the ERECTION of 91 DWELLINGS and 12 LOCK-UP GARAGES IN TRADITIONAL CONSTRUCTION, for which Bills of Quantities will be ready before the end of October, are invited to submit their names to the Borough Architect, 3 Jordangate, Macclesfield WITHIN SEVEN DAYS of the appearance of this advertisement.

The Council reserve the right to invite all or a selected list of firms to submit Tenders but do not undertake to accept the lowest or any Tender.

WALTER ISAAC,
Town Clerk.

Town Hall,
Macclesfield.

ESSEX
COUNTY COUNCIL.

(1) ROMFORD GIDEA PARK BRANCH LIBRARY.
(2) THUNDERSLEY COUNTY JUNIOR SCHOOL. EXTENSIONS AND ADAPTATIONS.

Contractors wishing to submit FIRM PRICE TENDERS for the above should forward their names, from which panels will be chosen and provided with tender documents.

(1) A single-storey building with load-bearing brickwork, estimated cost £19,000. Bills of Quantities are expected to be available late November, 1960.

(2) Two new classrooms in traditional construction and adaptations to provide toilets, estimated cost £8,000. The private architects for this contract are Gerald Shenstone & Partners, Bloomsbury-way, London, W.C.1.

Separate applications to reach the undersigned not later than 29th OCTOBER, 1960.

H. CONOLLY, C.B.E., F.R.I.B.A., County Architect.

County Hall, Chelmsford.

HAMPSHIRE
COUNTY COUNCIL.

COWPLAIN.
PROPOSED NEW INFANT SCHOOL.

FIXED-PRICE TENDERS are invited from suitable firms for the ERECTION of this SCHOOL, in single-storey traditional construction, and having a floor area of approximately 4,300 sq. ft.

Applications for tender documents, with a deposit of two guineas payable by cheque to the County Treasurer, should be sent to the County Architect, The Castle, Winchester, by 25th OCTOBER, 1960. The deposit will be refunded on receipt of a bona fide tender or the return of the documents.

Tender documents will be available shortly after 25th OCTOBER, and four weeks will be allowed for tendering. The County Council do not bind themselves to accept the lowest or any tender.

G. A. WHEATLEY, Clerk of the County Council.

ROCHESTER CITY.

WARREN WOOD REDEVELOPMENT —STAGE 5. 38 THREE-BEDROOM HOUSES AND 42 GARAGES, EARL ESTATE—PART IC.
63 THREE-BEDROOM HOUSES AND 45 GARAGES.

TENDERS are invited for the ERECTION OF THE ABOVE DWELLINGS. Tender Documents may be obtained from James A. Peel, Esq., A.M.I.C.E., M.I.Mun.E., City Surveyor, 66 Maidstone-road, Rochester, upon payment of £3 3s. 0d. deposit in respect of each scheme, which will be refunded after receipt of a bona fide Tender.

A fixed price Tender will be required for both Contracts, together with an alternative Tender incorporating the fluctuations clause of the R.I.B.A., form of Contract for Part IC, Earl Estate, only.

Documents are to be returned in the envelopes provided, to the Town Clerk, Guildhall, Rochester, before 12 NOON on MONDAY, 21st NOVEMBER, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

PHILIP H. BARTLETT, Town Clerk.

DVW/DF/H.10/64/17 and H.8/17.
6th October, 1960.

UXBRIDGE
BOROUGH.

ERECTION OF A MEETING HALL AT LONG-LANE, HILLINGDON.

TENDERS are invited for the ERECTION OF A MEETING HALL in Long-lane, Hillingdon. Bill of Quantities, Form of Tender and Drawings may be obtained from Harold E. G. Stripp, A.M.I.C.E., Borough Surveyor, 263 High-street, Uxbridge, on receipt of a deposit of £2 2s., to be returned on receipt of a bona fide tender. Tenders must be returned in a plain envelope endorsed "Contract No. 462" only, and must be received by the undersigned not later than noon on 11th NOVEMBER, 1960.

The Council do not bind themselves to accept the lowest or any tender.

E. RONALD WEST, Town Clerk.

265 High-street, Uxbridge, Middlesex.

ROYAL TUNBRIDGE WELLS
BOROUGH.

HOUSING CONTRACTS.

TENDERS are invited for BUILDING 126 DWELLINGS on the Sherwood Estate, Tunbridge Wells. The buildings will be SEMI-DETACHED PAIRS, TERRACES OF FOUR AND SIX, AND BLOCKS OF OLD PEOPLE'S FLATS, each of two storeys.

Alternatively, Contractors may Tender separately for 76 dwellings and/or for 50 dwellings.

Applications for a Form of Tender and Bills of Quantities should be made to William Pickering, A.M.I.C.E., Borough Surveyor and Waterworks Engineer, Town Hall, Tunbridge Wells, and the Contract Drawings and General Conditions may be inspected at his office.

M. J. H. GIRLING, Town Clerk.

Town Hall, Tunbridge Wells.

BROMLEY
BOROUGH.

ERECTION OF FLATS.

TENDERS are invited for the ERECTION OF 104 FLATS AND 55 GARAGES at Turpington-lane, Bromley.

Drawings and conditions of Contract (R.I.B.A. Form specially adapted for the use of local authorities) may be inspected upon application to the Borough Engineer, Municipal Offices, Bromley.

Contractors should apply for Bills of Quantities and forms of Tender not later than SATURDAY, 5th NOVEMBER, 1960, to the Borough Engineer.

When applying for Bills of Quantities contractors should also submit details of similar schemes undertaken by them, together with the names of two independent persons to whom reference can be made concerning such schemes.

Tenders must be submitted in the envelopes provided to the undersigned not later than the date indicated on the Form of Tender.

The Council does not bind itself to accept the lowest or any Tender.

LIONEL KAYE, Town Clerk.

Municipal Offices, Bromley, Kent.

BIRMINGHAM CITY.

MULTI-STOREY CAR PARK AND PUBLIC CONVENIENCES, CORNER HOLLIDAY-STREET AND BRIDGE-STREET, BIRMINGHAM.

The Public Works Committee propose to invite TENDERS for a MEASURE AND VALUE CONTRACT on a FIRM PRICE BASIS from suitable firms for the ERECTION OF THE ABOVE, subject to all necessary approvals being obtained.

The work comprises the construction of an EIGHT-STOREY REINFORCED CONCRETE BUILDING having parking space for 600 cars, TWO SINGLE-STOREY PUBLIC CONVENIENCES and SITE WORKS.

Firms wishing to be considered should submit their names, in envelopes endorsed "Multi-Storey Car Park, Holliday-street," to the City Architect, Civic Centre, Birmingham, 1, not later than NOON on MONDAY, 31st OCTOBER, 1960.

Firms from whom Tenders will be invited will be selected in the immediate future. It is anticipated that work will be required to start on site in February, 1961, and be completed within a period of 9 months, and the successful contractor will be required to comply with these requirements.

T. H. PARKINSON, Town Clerk.

The Council House, Birmingham, 1.

EAST RIDING OF YORKSHIRE
COUNTY COUNCIL.

TENDERS are invited for following works:

(a) ERECTION OF A 3-FORM ENTRY COUNTY SECONDARY SCHOOL at Norton, East Yorkshire. Approximate area 44,000 f.s.

(b) ERECTION OF A HOME FOR AGED PERSONS at Norton, East Yorkshire. Approximate area 13,000 f.s.

Forms and conditions of tender, Condition of Contract, Specifications and Bills of Quantities may be obtained from the County Architect, County Hall, Beverley, on payment of a deposit of Two Pounds for each project and which will be returned to any bona fide tenderer who returns all the documents supplied and whose tender is not withdrawn. Deposits will be returned after a contract has been sealed. Cheques should be made payable to the East Riding County Council.

It is anticipated that tender documents will be available for the school project on 7th NOVEMBER, 1960, and for the Home for Aged Persons on 1st DECEMBER, 1960.

No tender will be considered unless received by the undersigned not later than 4 p.m. on THURSDAY, 22nd DECEMBER, 1960, in a plain sealed envelope supplied and endorsed by the Council as appropriate, and which shall not bear any name or mark indicating the sender.

THOMAS STEPHENSON, Clerk of the Council.

THORNABY-ON-TEES
BOROUGH.

19 BUNGALOWS.

TENDERS are invited for the ERECTION OF 19 OLD PEOPLE'S BUNGALOWS on the Lascelles Estate, Lanehouse-road.

Plans prepared by Ronald Cowan, Esq., F.R.I.B.A., Chartered Architect of 20 Finkle-street, Stockton-on-Tees, may be inspected, together with Conditions of Contract, at his office during normal hours.

Contractors wishing to Tender should apply to the Town Clerk for Bills of Quantities and Form of Tender not later than 28th October, 1960, enclosing a deposit of £2 2s. 0d. which will be refunded on receipt of a bona fide Tender not subsequently withdrawn.

Tenders must be submitted, in the envelopes provided, to the undersigned not later than 10 a.m., 12th NOVEMBER, 1960.

The Council is not bound to accept the lowest or any Tender.

A. STOCKWELL, Town Clerk.

BRIGHOUSE
BOROUGH.

HOUSING AND PROPERTY COMMITTEE.
OLD PERSONS' DWELLINGS, LAVEROCK-LANE.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION OF THE ROADS AND DWELLINGS on the above site.

Particulars are obtainable from the Borough Engineer and Surveyor, Mr. H. A. Sneezum, A.M.I.C.E., Commercial-street, Brighouse.

ROAD WORKS.—Based on Conditions of Tender, Specification and Bill of Quantities obtainable on deposit of £1 which will be returned on receipt of bona fide tender.

DWELLINGS.—Six bungalows and eight single-person flats, Contract 69 based on Plans and Specification.

Tenders must be returned to me in separate plain sealed envelopes endorsed "Roadworks, Laverock-lane" and "Old Persons' Dwellings, Laverock-lane, Contract 69" by 21st NOVEMBER, 1960.

JOHN R. LIDDLE, Town Clerk.

Town Hall, Brighouse.

HAMPSHIRE
COUNTY COUNCIL.

DIBDEN PURLIEU. PROPOSED JUNIOR SCHOOL.

TENDERS are invited from suitable firms for the ERECTION OF THIS SCHOOL, IN TWO-STOREY TRADITIONAL CONSTRUCTION and having a floor area of approximately 14,400 sq. ft.

Applications for Tender documents, with a deposit of two guineas, payable by cheque to the County Treasurer, should be sent to the County Architect, The Castle, Winchester, by 27th October, 1960. The deposit will be refunded on receipt of a bona fide Tender or the return of the documents.

Tender documents will be available about 14th NOVEMBER and FOUR WEEKS will be allowed for Tendering. The County Council do not bind themselves to accept the lowest or any Tender.

G. A. WHEATLEY, Clerk of the County Council

SURBITON
BOROUGH.

SURBITON ASSEMBLY ROOMS.

TENDERS are invited for the REDECORATION OF VARIOUS ROOMS AT THE SURBITON ASSEMBLY ROOMS in accordance with the Specification and General Conditions of Contract, which may be obtained from the office of Mr. R. Thirlway, M.I.Mun.E., M.I.Struct.E., Borough Engineer and Surveyor, Council Offices, Ewell-road, Surbiton.

Tenders, on the form provided, enclosed in the endorsed envelope provided, and bearing no name or mark indicating the sender, must be delivered to the undersigned and received by him not later than 5 p.m. on FRIDAY, 28th OCTOBER, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

JOHN H. A. CRUNDELL, Town Clerk.

BOURNEMOUTH
COUNTY BOROUGH.

TO BUILDING CONTRACTORS.

TENDERS are invited on a fixed price basis for the ERECTION of:—

(a) Contract K.36 (A) Cunningham-crescent Central Site, Site No. 12. THREE BLOCKS OF 12 TWO-BED-ROOM FLATS, Type W, and ANCILLARY WORKS.

(b) Contract K.24 (A) Fernheath-road Site No. 9. THREE BLOCKS OF EIGHT BED-SITTING ROOM FLATS AND ANCILLARY WORKS.

(c) Contract K.4 (B) Gort-road, Site No. 1. ONE BLOCK OF FOUR ONE-BEDROOM FLATS, Type T.3, and ANCILLARY WORKS.

Bills of Quantities and Form of Tender for (a) and (b) and Drawings and Specification for (c) are obtainable from the Borough Architect's Office, Room 106, Town Hall, on payment of two guineas deposit in respect of each contract, refundable upon receipt of a bona fide Tender not subsequently withdrawn, and the return of all documents supplied.

Tenders to be received by me not later than 10 a.m. TUESDAY, 15th NOVEMBER, 1960.

A. LINDSAY CLEGG, Town Clerk.

SUNDERLAND
COUNTY BOROUGH.

TENDERS are invited for the ERECTION OF ADDITIONAL CLASSROOMS AND ALTERATIONS TO STAFF LAVATORY ACCOMMODATION at Havelock Junior Mixed School.

Tender documents obtainable from Borough Architect, Grange House, Stockton-road, Sunderland, on payment of two guineas deposit, refundable on receipt of a bona fide tender. Cheques payable to "Sunderland Corporation."

Sealed tenders endorsed "Tender for Classrooms, etc.—Havelock Junior Mixed School" must be received at my office, Town Hall, not later than 11th NOVEMBER, 1960.

G. S. McINTIRE, Town Clerk.

HEREFORDSHIRE
COUNTY COUNCIL.

Building Contractors wishing to TENDER for the following works at the Training College, Hereford, are invited to apply to the County Architect, Bath-street, Hereford, by 4th NOVEMBER, 1960:—

(a) EXTENSIVE ALTERATIONS, REPAIRS AND REDECORATIONS TO EXISTING BUILDINGS INCLUDING NEW ELECTRICAL INSTALLATION AND CONVERSION OF EXISTING HEATING PLANT.

(b) NEW WORKS INCLUDING ATTACHED CLASSROOMS AND LABORATORIES; DETACHED TWO-STOREY ASSEMBLY HALL/GYMNASIUM CHANGING AND COMMON ROOMS; HOSTEL BLOCK; PRINCIPAL'S HOUSE; GARAGES, CYCLE SHEDS AND EXTERNAL WORKS.

Sections (a) and (b) will be let as one contract. Applications may be considered by a Committee and a final selection made.

Names only are to be submitted in the first instance but those contractors who have not previously worked for the Council are asked to enclose a list of similar projects carried out, number of operatives employed, and any details of ability to finance the project applicant may care to give.

If selected, contractors will be asked to furnish a deposit of £5 5s. 0d., returnable on receipt of a bona fide Tender not subsequently withdrawn or the return of the documents. The Council do not bind themselves to accept the lowest, or any, Tender.

ROTHERHAM
COUNTY BOROUGH.

CONTRACTS.

The Council will be inviting TENDERS during the next two months for the ERECTION OF THE FOLLOWING BUILDINGS:—

TWO-BAY SUB-FIRE STATION.
BLOCK OF FLATLETS FOR 30 AGED PEOPLE.
120 HOUSES AND FLATS.
AGED PERSONS' HOSTEL FOR 36 PEOPLE.
CHILD WELFARE CLINIC.

Contractors who are desirous of tendering should apply to the Borough Engineer, Municipal Offices, Rotherham, not later than 10 a.m. WEDNESDAY, 26th OCTOBER, 1960, indicating which contracts they are interested in and enclosing a deposit for five guineas, made payable to the Borough Treasurer, for contract documents which will be forwarded as soon as possible after receipt of application. The deposit will be refunded on receipt of a bona fide Tender.

Tenders will not allow for any fluctuations in the rates of labour and materials during the course of the contract.

The Corporation does not bind itself to accept the lowest or any Tender.

JOHN S. WALL, Town Clerk.

Municipal Offices, Howard-street, Rotherham.

GILLINGHAM
BOROUGH.

STRATFORD ESTATE STAGE III.
20 HOUSES AND 12 GARAGES.

FIXED PRICE TENDERS are invited for the ERECTION OF 20 HOUSES AND 12 GARAGES at Henley-close, Rainham, Kent.

Persons desirous of tendering may obtain copies of the Bills of Quantities, Specification and Form of Tender and may inspect the drawings and Conditions of Contract at the Borough Engineer's Department during usual office hours.

Applications should be accompanied by a cheque for five guineas (£5 5s.) made payable to Gillingham Corporation. This sum will be refunded on the receipt of a bona fide Tender not subsequently withdrawn.

Tenders in sealed envelopes supplied and endorsed "Tender for Stratford Estate Stage III" must be delivered to the undersigned by not later than 12 NOON on FRIDAY, 11th NOVEMBER, 1960.

FRANK HILL, Town Clerk.

Municipal Buildings, Gillingham, Kent.
13th October, 1960.

MITCHAM
BOROUGH.

"SIBFORD," LOWER GREEN WEST, MITCHAM.

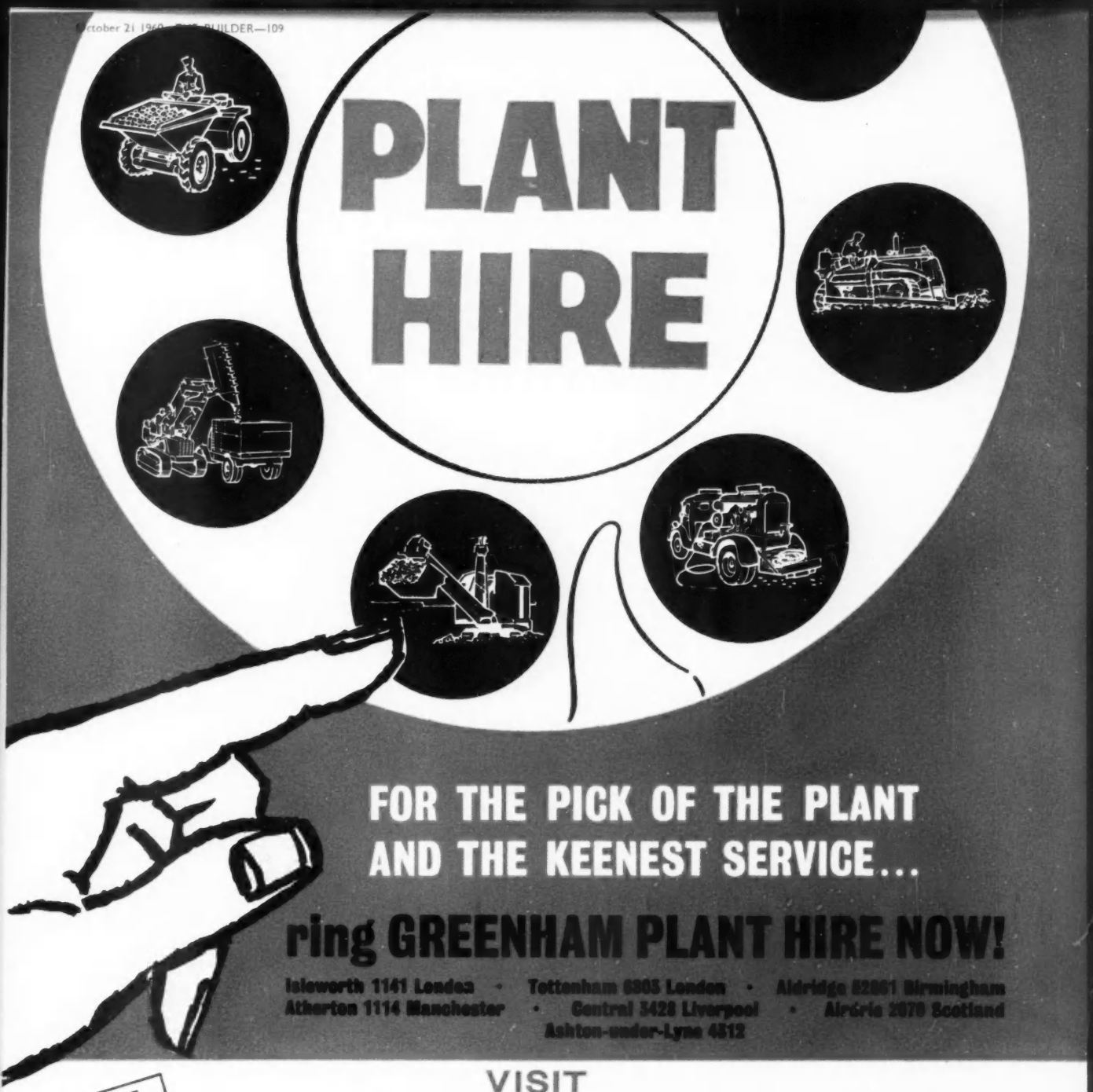
TENDERS are invited for the EXTENSION AND ALTERATION OF "SIBFORD," Lower Green West, Mitcham, to provide 24 ONE-ROOM FLATS FOR OLD PEOPLE.

Applications for tender documents must be made to the Borough Engineer and Surveyor before the 11th NOVEMBER, 1960, and tenders, in the envelope provided, must reach the undersigned not later than first post on 2nd DECEMBER, 1960.

The Council do not bind themselves to accept the lowest or any tender.

R. H. WHITE, Town Clerk.

Town Hall, Mitcham, Surrey.
13th October, 1960.



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Isleworth 1141 London · Tottenham 6805 London · Aldridge 52861 Birmingham
Atherton 1114 Manchester · Central 3428 Liverpool · Airdrie 2070 Scotland
Ashton-under-Lyne 4512

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AN ACCOFLEX FLOOR FOR HARD-TREADING FEET

Accoflex floor tiles were used throughout the Watford Police Station, North Orbital Road, Watford, Herts.
ARCHITECT: WILLIAM CRABTREE, F.R.I.B.A., *in association with the* HERTFORDSHIRE COUNTY ARCHITECT: MR. G. C. FARDELL, M.B.E., A.R.I.B.A.

REMEMBER POPPY DAY

Policemen's feet may not be as heavy as tradition says, but this Accoflex floor has to stand more than the average amount of coming and going. Accoflex tiles offered just what was needed – excellent resistance to hard wear, dirt and grease of all kinds together with ease of maintenance. These qualities combined with a wide variety of colours to fit any decorative scheme make Accoflex the answer to flooring problems in public buildings. Please write for further details.

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ARMSTRONG CORK COMPANY LTD., FLOORING DEPT., BUSH HOUSE, ALDWYCH, LONDON, W.C.2. TEL. COVENT GARDEN 1101
Manufacturers of Accoflex, Accotile, Cork Tile, Linotile, Rubber Tile Linoleum, and Vinyl floorings.

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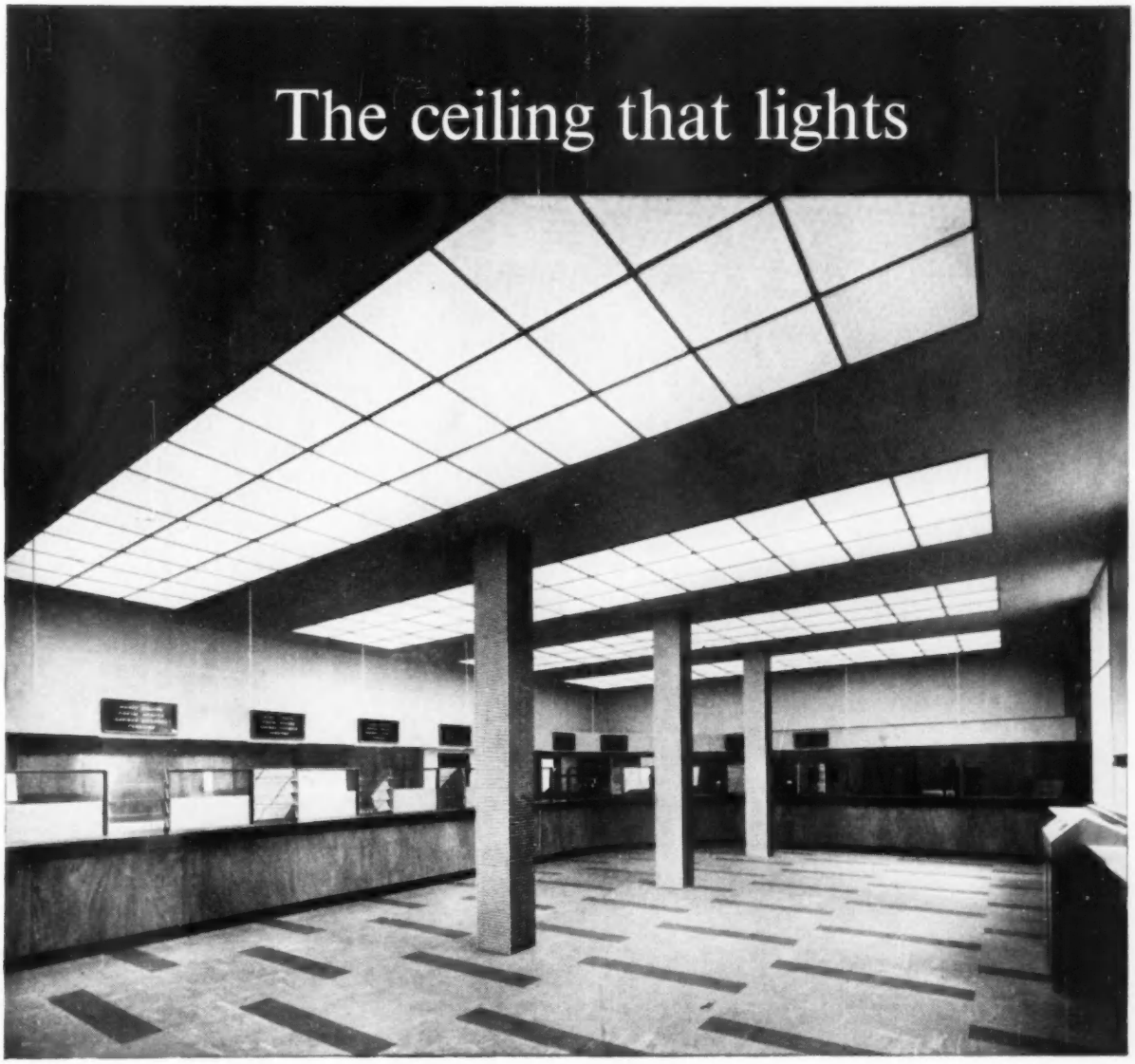

Architects: Architect's Department, Ministry of Works.

Lumenated Module ceiling for a new-look Post Office

In the modernisation of the 50-year-old main post office at Eastbourne, Sussex, new light and new life have been given to the public hall by the installation of Lumenated Module units.

Lumenated Ceilings are precision made. They arrive on site ready for immediate erection—using a minimum of skilled labour. They are covered by a comprehensive guarantee and a full maintenance service is provided. Expert co-operation on design and installation can be given by our experienced staff. Most Lumenated Ceilings diffuser designs have been accepted by the Council of Industrial Design. Please write for full details.

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Lytag is a lightweight aggregate produced from pulverised fuel ash by a carefully controlled sintering process. Spherical in shape, it has a slightly roughened surface so providing an excellent key for the adhesion of cement.

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A number of technical papers on the different uses of Lytag are available and will be forwarded upon request.

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A LAING COMPANY

CUMBERNAULD DEVELOPMENT CORPORATION

Muirhead 3 (Housing) Development. Contractors wishing to tender for the erection of 113 houses of 4 basic types with variations together with 33 lock-up garages, 1 sub-station, 1 shop, and pavings, drainage and certain site works, are invited to submit their names to the Chief Architect and Planning Officer, Cumbernauld Development Corporation, Cumbernauld House, Cumbernauld, Glasgow, not later than 25th October, 1960.

Schedules of Quantities for this Several Works Contract will be available early in November.

The Corporation reserve the right to select the Contractors to whom tender documents will be issued.

HAVANT AND WATERLOO
URBAN DISTRICT COUNCIL

invite FIXED PRICE TENDERS for the ERECTION OF 68 DWELLINGS COMPRISING 42 HOUSES, ONE BLOCK OF EIGHT FLATS, AND 18 BUNGALOWS, at Cunningham-road, Boyle-crescent, Hamble-lane, and Anne-crescent, Waterlooville. Conditions of Contract and Drawings may be inspected at the offices of the Engineer and Surveyor, 1 Park-road North, Havant, from whom Bills of Quantities may be obtained.

No Tender will be received except in a plain sealed envelope which must bear the word "Tender" followed by the subject to which it relates, but shall not bear any name or mark indicating the sender, and must be delivered to the Clerk of the Council, Town Hall, Havant, not later than 12 NOON on MONDAY, 21st NOVEMBER, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

REIGATE
BOROUGH.

12 4-STOREY MAISONETTES AND 10 GARAGES, CROMWELL-ROAD ESTATE, REDHILL.
12 4-STOREY MAISONETTES AND 2 OLD PEOPLES' BUNGALOWS, 14 STORES AND 12 GARAGES, COLESMEAD-ROAD, REDHILL.

FIXED-PRICE TENDERS invited based upon Bills of Quantities for substructure and site works, and lump sum for superstructure. Tenders may be submitted for either or both schemes.

Forms of Tender, Specifications, Bills of Quantities and Plans obtainable from Borough Surveyor, Town Hall, Reigate, on payment of deposit of £2 2s. each.

Tenders, in envelopes provided, must be delivered to the undersigned not later than NOON on THURSDAY, 17th NOVEMBER, 1960.

HEBER DAVIES,
Town Clerk.

Town Hall,
Reigate.

PLYMOUTH CITY.

TENDERS are invited from Building Contractors for:—

(1) The ERECTION OF 24 OLD PEOPLE'S FLATLETS AND ONE WARDEN'S FLAT at Goodwin-avenue, Southway.

(2) The ERECTION OF AN OPEN AIR SCHOOL at Whitleigh.

Applications accompanied by a deposit of three guineas for each scheme made payable to the Plymouth Corporation to be made to the City Architect, Seymour-road, Plymouth, from whom Bills of Quantities and Forms of Tender may be obtained.

No application received after the 31st OCTOBER, 1960 will be considered.

Deposits will be refunded on receipt of bona fide Tenders not subsequently withdrawn.

GILLINGHAM
BOROUGH.

REDEVELOPMENT AREA, CHURCH-STREET, STAGE III. 46 DWELLINGS AND 16 GARAGES.

Fixed price TENDERS are invited for the ERECTION OF 46 DWELLINGS COMPRISING OF 20 HOUSES, TWO BLOCKS OF SIX FLATS, 14 BUNGALOWS AND 16 GARAGES at Church-street, Gillingham, Kent.

Persons desirous of Tendering may obtain copies of the Bills of Quantities, Specification and Form of Tender and may inspect the drawings and conditions of contract at the Borough Engineer's Department during usual office hours on and after 24th October, 1960.

Applications should be accompanied by a cheque for five guineas (£5 5s. 0d.) made payable to Gillingham Corporation. The sum will be refunded on the receipt of a bona fide Tender not subsequently withdrawn.

Tenders in sealed envelopes supplied and endorsed "Tenders for 46 dwellings and 16 garages" must be delivered to the undersigned by not later than NOON on FRIDAY, 11th NOVEMBER, 1960.

FRANK HILL,
Town Clerk.

Municipal Buildings,
Gillingham,
Kent.
17th October, 1960.

LIVERPOOL CITY.

ARCHITECTURAL AND HOUSING DEPARTMENT.

PURCHASE OF BUILDING PLANT.

TENDERS invited for SUPPLY OF THE FOLLOWING BUILDING PLANT:—

NO. 2 PARKER DIESEL 7/5 CONCRETE MIXER.
NO. 3 WINGET DIESEL 5/3½ CONCRETE MIXER.
NO. 2 10 CWT. WICKHAM DIESEL MOBILE HOISTS.
NO. 2 PEGRON RAMMERS.
NO. 2 A.C.E. HUMDINGER POKER VIBRATORS.
NO. 3 WILD'S BUILDERS' BRICK ELEVATORS (PORTABLE).
NO. 1 1½ IN. CENTRIFUGAL SELF PRIMING PUMP.

Tender forms from The City Architect and Director of Housing, Blackburn Chambers, Dale-street, Liverpool, 2; returnable by 7th NOVEMBER, 1960.

THOMAS ALKER,
(J. 6458.) Town Clerk.

LUTON
BOROUGH.

NEW CENTRAL LIBRARY.

Luton Corporation are about to build a new CENTRAL LIBRARY at an estimated cost of £250,000. Contractors wishing to be considered for inclusion in a list of Contractors who will be invited to TENDER for this on a fixed price basis and who can guarantee a high standard of workmanship and to complete a contract on time, are invited to submit their names, together with a list of projects of similar value and character which they have undertaken, to the Borough Architect, Town Hall, Luton, on or before 4th NOVEMBER, 1960.

DURHAM
COUNTY COUNCIL.

TENDERS INVITED:—

Eppleton Colliery Modern School—ALTERATIONS AND ADAPTATIONS, HEATING AND D.H.W. INSTS.

Application for further details to County Architect, South-street, Durham, not later than 2nd NOVEMBER, 1960.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.
drawn.

SUNDERLAND
COUNTY BOROUGH.

TENDERS are invited for the following for Monkwearmouth Comprehensive School:—

(a) SUPPLY AND LAYING OF TERRAZZO PAVINGS.
(b) SUPPLY AND LAYING OF WOOD BLOCK AND STRIP FLOORINGS.
(c) SUPPLY AND LAYING OF CORK LINOLEUM AND VINYL TILE FLOORINGS.

Tender documents obtainable from Borough Architect, Grange House, Stockton-road, Sunderland, applicants to specify which required.

Sealed Tenders, appropriately endorsed, must be received at my office, Town Hall, not later than 11th NOVEMBER, 1960.

G. S. McINTIRE,
Town Clerk.

MITCHAM
BOROUGH.

"LITTLE GLEBELANDS," LOVE-LANE, MITCHAM.

TENDERS are invited for the EXTENSION AND ALTERATION OF "LITTLE GLEBELANDS," Love-lane, Mitcham, to provide TEN ONE-ROOM FLATS FOR OLD PEOPLE.

Applications for tender documents must be made to the Borough Engineer and Surveyor, Town Hall, Mitcham, before the 28th OCTOBER, 1960, and tenders, in the envelope provided, must reach the undersigned not later than first post on 18th NOVEMBER, 1960.

The Council do not bind themselves to accept the lowest or any tender.

R. H. WHITE,
Town Clerk.

Town Hall,
Mitcham, Surrey.
13th October, 1960.

MALVERN
URBAN DISTRICT COUNCIL.

ERECTION OF TRADITIONAL BUNGALOWS.

FIXED PRICE TENDERS are invited for the ERECTION AND COMPLETION OF 7 PAIRS OF TRADITIONAL BUNGALOWS at Old Hollow, West Malvern.

Drawings, Specifications, Schedules of Rates and Form of Tender may be obtained from Mr. C. C. Judson, Surveyor and Water Engineer, The Council House, Malvern, on payment of a deposit of two guineas, which will be returned after receipt of a bona fide Tender.

Tenders on the prescribed form, in the envelope supplied, must be delivered to the undersigned not later than NOON on the 14th NOVEMBER, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. BULMAN,
Clerk of the Council.

The Council House,
Malvern.
14th October, 1960.

EAST SUSSEX
COUNTY COUNCIL.

BARCOMBE C.E. (CONTROLLED) SCHOOL.

TENDERS are to be invited for the ERECTION OF A FOUR-CLASSROOM SCHOOL.

Contractors wishing to tender should apply before 14th NOVEMBER, 1960, to the County Architect, County Hall, Lewes, Sussex.

Selected Contractors will be provided with Bills of Quantities on 19th NOVEMBER, 1960.

NORTHUMBERLAND
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

TENDERS are required for the ERECTION OF THREE PRACTICAL ROOMS AND ONE CLASSROOM at Walbottle Campus Site, Walbottle, nr Newcastle/Tyne.

Contractors desiring to be considered for inclusion in the list of Tenderers for this work should forward particulars of their name and address together with a deposit value £2 2s. 0d. returnable on receipt of a bona fide Tender, to the County Architect at the address stated below not later than MONDAY, 31st OCTOBER, 1960.

Cheques, etc., should be crossed and payable to "The County Treasurer."

No Tender will be received except in a plain sealed envelope, which may bear the words "Tender for Additional Accommodation—Walbottle Campus Site" but shall not bear any name or mark indicating the sender.

The County Council do not bind themselves to accept the lowest or any Tender.

30-32 Great North-road,
Newcastle upon Tyne, 2.

GRAVESEND
BOROUGH.

IMPROVEMENTS TO NAPIER COTTAGE.

TENDERS returnable by 14th NOVEMBER, 1960, are invited for IMPROVEMENTS AND STRUCTURAL ALTERATIONS TO NAPIER COTTAGE, the Cemetery Extension (approach from Austin-road), Gravesend.

Documents may be obtained from and drawings inspected at the office of the Borough Engineer and Surveyor, 6 Woodville-terrace, Gravesend.

FARNHAM
URBAN DISTRICT COUNCIL.

VEHICLE REPAIR SHOP, SOUTH-STREET DEPOT, FARNHAM.

The Council invite TENDERS FOR the ERECTION OF A VEHICLE REPAIR SHOP at South-street Depot, Farnham, comprising PRECAST CONCRETE FRAME INFILLED WITH BRICKWORK AND ANCILLARY WORKS.

Form of Tender, Specification and Bills of Quantities may be obtained from Geoffrey Poole, A.M.Inst.C.E., Engineer and Surveyor, Council Offices, South-street, Farnham, on deposit of Two Guineas, which is returnable on receipt of a bona fide Tender and/or return of all documents.

The Conditions of Contract are the Articles of Agreement and General Conditions of Contract for use with Quantities as prepared by the Royal Institute of British Architects.

Tenders are to be returned to the undersigned in the endorsed envelope provided not later than FIRST POST on FRIDAY, 18th NOVEMBER, 1960. Late Tenders will not be considered.

The Council do not bind themselves to accept the lowest or any Tender.

H. W. UNDERDOWN,
Clerk of the Council.

Council Offices,
South-street,
Farnham,
Surrey.

EAST SUSSEX
COUNTY COUNCIL.

CHIDDINGLY COUNTY PRIMARY SCHOOL.

TENDERS are to be invited for the PROVISION OF A SANITARY BLOCK, KITCHEN AND BOILER HOUSE.

Contractors wishing to tender should apply before 28th OCTOBER, 1960, to the County Architect, County Hall, Lewes, Sussex.

Selected Contractors will be provided with Bills of Quantities on 22nd NOVEMBER, 1960.

PUBLIC APPOINTMENTS

EALING
BOROUGH.

FOUR ARCHITECTURAL ASSISTANTS, within scale A.P.T. IV according to experience (£1,185-£1,355 inclusive). Must have recognised architectural qualifications.

JUNIOR ARCHITECTURAL ASSISTANT, A.P.T. I (£645-£815 plus London weighting).

Full particulars and forms of application obtainable from Borough Engineer, Town Hall, Ealing, W.5.

Closing date 31st OCTOBER, 1960.

E. J. COPE-BROWN,
Town Clerk.

LEE VALLEY
WATER COMPANY.

APPOINTMENT OF BUILDING INSPECTOR.

Applications are invited for the post of BUILDING INSPECTOR in the Lands and Buildings Section of the Chief Engineer's Department.

The salary will be £925-£1,100 per annum. The duties will consist of planning the routine maintenance of the Company's depots, pumping stations and cottages, reporting on and initiating any special building work required, and supervising contractors and Company's employees carrying out building work. The applicant must have good practical experience in all branches of building and possession of the Building Inspector's Certificate of the Inst.Mun.E., or other similar qualification, will be an advantage. Applicants must also be in possession of a current driving licence.

Applications in writing must be addressed to the Chief Engineer, Lee Valley Water Company, Bishops Rise, Hatfield, and received not later than 26th OCTOBER, 1960.

LONDON
COUNTY COUNCIL.

HAMMERSMITH COLLEGE OF ART AND BUILDING.

Required, as soon as possible, ASSISTANT, Grade B to teach mainly practical and theoretical subjects to Final City and Guilds level in Carpentry and Joinery, also to assist with practical classes in Woodcutting Mach.nists' Work.

Candidates should hold City and Guilds of London Institute Final and Full Technological Certificates in Carpentry and Joinery. Previous teaching and good industrial experience would be added recommendations.

Salary, £700-£1,150 plus possible additions for approved training and qualifications, and London allowance of £38 or £51. Increments within scale for experience.

Application forms and further particulars from Secretary (FE.3/B/2557.10), Lime Grove, W.12, to be returned within 14 days.

SOUTHPORT
COUNTY BOROUGH.

Applications are invited for the appointment of a TEMPORARY TOWN PLANNING ASSISTANT (Special Grade, £840-£1,145) in the Borough Architect and Town Planning Officer's Department.

Applicants should be capable, with minimum supervision, of undertaking the first review of the Town Development Plan which includes: Land Use Survey of the Borough, Preparation of Maps and Tables, Revision of Written Analysis and Written Statement.

The successful applicant will be required for at least two years.

Application forms may be obtained from the Borough Architect and Town Planning Officer, 99-105 Lord-street. Closing date 5th NOVEMBER.

CARLTON
URBAN DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment at a salary in accordance with Grade IV of the A.P.T. Division of the Scales of Salaries of the National Joint Council commencing at £1,140 per annum and rising by annual increments to £1,310 per annum the point of entry to be determined having regard to the experience of the applicant.

Applicants must be Associates of the R.I.B.A. or Registered Architects.

The appointment will be subject to the provisions of the Local Government Superannuation Acts 1937 to 1953, the National Scheme of Conditions of Service and the satisfactory passing of a medical examination.

Applications stating age, qualifications and details of experience, together with the names of three referees should be forwarded to the undersigned by 10 a.m. on WEDNESDAY, the 26th OCTOBER, 1960.

HOUSING ACCOMMODATION WILL BE MADE AVAILABLE if required and removal expenses will be paid by the Council.

A. E. F. WALKER,
Clerk of the Council.

Council House,
Burton-road,
Carlton,
Nottingham.
11th October, 1960.

CIVIL SERVICE
COMMISSION.

ARCHITECTS AND MAINTENANCE SURVEYORS.

Pensionable posts for men and women at least 25 and under 35 on 1st January, 1960 (extension for regular Forces service, Overseas Civil Service, established civil service and temporary Government service as Architect or Maintenance Surveyor). Candidates must be registered Architects or, alternatively, for Maintenance Surveyor posts, have achieved Corporate membership of R.I.C.S. (Building Section), or have passed examinations necessary for attaining Corporate membership. Salary (men, London) £830-£1,125 according to age, rising to £1,300. Promotion prospects. Write 17 North Audley-street, London, W.1, for application form quoting **S/60-61.**

A new development in the Lightweight Concrete field

LYTAG

lightweight aggregate

LYTAG is used for...

Structural Grades of Concrete

Precast Concrete Blocks

In situ Roof and Floor Screeding

Refractory Concrete

Lytag provides Resistance to weather, Low U value, Resistance to fire and High Compressive strength.

Lytag is a lightweight aggregate produced from pulverised fuel ash by a carefully controlled sintering process. Spherical in shape, it has a slightly roughened surface so providing an excellent key for the adhesion of cement.

It has been the subject of close scientific scrutiny throughout its development.

A number of technical papers on the different uses of Lytag are available and will be forwarded upon request.

LYTAG LIMITED

Manor Way, Boreham Wood, Hertfordshire

Telephone: Elstree 2854

A LAING COMPANY

CUMBERNAULD DEVELOPMENT CORPORATION

Muirhead 3 (Housing) Development. Contractors wishing to tender for the erection of 113 houses of 4 basic types with variations together with 33 lock-up garages, 1 sub-station, 1 shop, and pavings, drainage and certain site works, are invited to submit their names to the Chief Architect and Planning Officer, Cumbernauld Development Corporation, Cumbernauld House, Cumbernauld, Glasgow, not later than 25th October, 1960.

Schedules of Quantities for this Several Works Contract will be available early in November.

The Corporation reserve the right to select the Contractors to whom tender documents will be issued.

HAVANT AND WATERLOO
URBAN DISTRICT COUNCIL

invite FIXED PRICE TENDERS for the ERECTION OF 68 DWELLINGS COMPRISING 42 HOUSES, ONE BLOCK OF EIGHT FLATS, AND 18 BUNGALOWS, at Cunningham-road, Boyle-crescent, Hamble-lane, and Anne-crescent, Waterlooville. Conditions of Contract and Drawings may be inspected at the offices of the Engineer and Surveyor, 1 Park-road North, Havant, from whom Bills of Quantities may be obtained.

No Tender will be received except in a plain sealed envelope which must bear the word "Tender" followed by the subject to which it relates, but shall not bear any name or mark indicating the sender, and must be delivered to the Clerk of the Council, Town Hall, Havant, not later than 12 NOON on MONDAY, 21st NOVEMBER, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

REIGATE
BOROUGH.

12 4-STOREY MAISONETTES AND 10 GARAGES.
CROMWELL-ROAD ESTATE, REDHILL.
12 4-STOREY MAISONETTES AND 2 OLD PEOPLES' BUNGALOWS, 14 STORES AND 12 GARAGES, COLESMEAD-ROAD, REDHILL.

FIXED-PRICE TENDERS invited based upon Bills of Quantities for substructure and site works, and lump sum for superstructure. Tenders may be submitted for either or both schemes.

Forms of Tender, Specifications, Bills of Quantities and Plans obtainable from Borough Surveyor, Town Hall, Reigate, on payment of deposit of £2 2s. each.

Tenders, in envelopes provided, must be delivered to the undersigned not later than NOON on THURSDAY, 17th NOVEMBER, 1960.

HEBER DAVIES,
Town Clerk.

Town Hall,
Reigate.

PLYMOUTH CITY.

TENDERS are invited from Building Contractors for:—

(1) The ERECTION OF 24 OLD PEOPLE'S FLATLETS AND ONE WARDEN'S FLAT at Goodwin-avenue, Southway.

(2) The ERECTION OF AN OPEN AIR SCHOOL at Whitleigh.

Applications accompanied by a deposit of three guineas for each scheme made payable to the Plymouth Corporation to be made to the City Architect, Seymour-road, Plymouth, from whom Bills of Quantities and Forms of Tender may be obtained.

No application received after the 31st OCTOBER, 1960 will be considered.

Deposits will be refunded on receipt of bona fide Tenders not subsequently withdrawn.

GILLINGHAM
BOROUGH.

REDEVELOPMENT AREA, CHURCH-STREET, STAGE III.
46 DWELLINGS AND 16 GARAGES.

Fixed price TENDERS are invited for the ERECTION OF 46 DWELLINGS COMPRISING OF 20 HOUSES, TWO BLOCKS OF SIX FLATS, 14 BUNGALOWS AND 16 GARAGES at Church-street, Gillingham, Kent.

Persons desirous of Tendering may obtain copies of the Bills of Quantities, Specification and Form of Tender and may inspect the drawings and conditions of contract at the Borough Engineer's Department during usual office hours on and after 24th October, 1960.

Applications should be accompanied by a cheque for five guineas (£5 5s. 0d.) made payable to Gillingham Corporation. The sum will be refunded on the receipt of a bona fide Tender not subsequently withdrawn.

Tenders in sealed envelopes supplied and endorsed "Tenders for 46 dwellings and 16 garages" must be delivered to the undersigned by not later than NOON on FRIDAY, 11th NOVEMBER, 1960.

FRANK HILL,
Town Clerk.

Municipal Buildings,
Gillingham,
Kent.
17th October, 1960.

LIVERPOOL CITY.

ARCHITECTURAL AND HOUSING DEPARTMENT.
PURCHASE OF BUILDING PLANT.

TENDERS invited for SUPPLY OF THE FOLLOWING BUILDING PLANT:—

NO. 2 PARKER DIESEL 7/5 CONCRETE MIXER.
NO. 3 WINGET DIESEL 5/3½ CONCRETE MIXER.
NO. 2 10 CWT. WICKHAM DIESEL MOBILE HOISTS.
NO. 2 PEGRON RAMMERS.
NO. 2 A.C.E. HUMDINGER POKER VIBRATORS.
NO. 3 WILD'S BUILDERS' BRICK ELEVATORS (PORTABLE).
NO. 1 1½ IN. CENTRIFUGAL SELF PRIMING PUMP.

Tender forms from The City Architect and Director of Housing, Blackburn Chambers, Dale-street, Liverpool, 2; returnable by 7th NOVEMBER, 1960.

THOMAS ALKER,
(J. 6458.) Town Clerk.

LUTON
BOROUGH.

NEW CENTRAL LIBRARY.

Luton Corporation are about to build a new CENTRAL LIBRARY at an estimated cost of £250,000. Contractors wishing to be considered for inclusion in a list of Contractors who will be invited to TENDER for this on a fixed price basis and who can guarantee a high standard of workmanship and to complete a contract on time, are invited to submit their names, together with a list of projects of similar value and character which they have undertaken, to the Borough Architect, Town Hall, Luton, on or before 4th NOVEMBER, 1960.

DURHAM
COUNTY COUNCIL.

TENDERS INVITED:—

Eppleton Colliery Modern School—ALTERATIONS AND ADAPTATIONS, HEATING AND D.H.W. INSTS.

Application for further details to County Architect, South-street, Durham, not later than 2nd NOVEMBER, 1960.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.
drawn.

SUNDERLAND
COUNTY BOROUGH.

TENDERS are invited for the following for Monkwearmouth Comprehensive School:—

(a) SUPPLY AND LAYING OF TERRAZZO PAVINGS.
(b) SUPPLY AND LAYING OF WOOD BLOCK AND STRIP FLOORINGS.
(c) SUPPLY AND LAYING OF CORK LINOLEUM AND VINYL TILE FLOORINGS.

Tender documents obtainable from Borough Architect, Grange House, Stockton-road, Sunderland, applicants to specify which required.

Sealed Tenders, appropriately endorsed, must be received at my office, Town Hall, not later than 11th NOVEMBER, 1960.

G. S. McINTIRE,
Town Clerk.

MITCHAM
BOROUGH.

"LITTLE GLEBELANDS," LOVE-LANE, MITCHAM.

TENDERS are invited for the EXTENSION AND ALTERATION OF "LITTLE GLEBELANDS," Love-lane, Mitcham, to provide TEN ONE-ROOM FLATS FOR OLD PEOPLE.

Applications for tender documents must be made to the Borough Engineer and Surveyor, Town Hall, Mitcham, before the 28th OCTOBER, 1960, and tenders, in the envelope provided, must reach the undersigned not later than first post on 18th NOVEMBER, 1960.

The Council do not bind themselves to accept the lowest or any tender.

R. H. WHITE,
Town Clerk.

Town Hall,
Mitcham, Surrey.
13th October, 1960.

MALVERN
URBAN DISTRICT COUNCIL.

ERECTION OF TRADITIONAL BUNGALOWS.

FIXED PRICE TENDERS are invited for the ERECTION AND COMPLETION OF 7 PAIRS OF TRADITIONAL BUNGALOWS at Old Hollow, West Malvern.

Drawings, Specifications, Schedules of Rates and Form of Tender may be obtained from Mr. C. C. Judson, Surveyor and Water Engineer, The Council House, Malvern, on payment of a deposit of two guineas, which will be returned after receipt of a bona fide Tender.

Tenders on the prescribed form, in the envelope supplied, must be delivered to the undersigned not later than NOON on the 14th NOVEMBER, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. BULMAN,
Clerk of the Council.

The Council House,
Malvern.
14th October, 1960.

EAST SUSSEX
COUNTY COUNCIL.

BARCOMBE C.E. (CONTROLLED) SCHOOL.

TENDERS are to be invited for the ERECTION OF A FOUR-CLASSROOM SCHOOL.

Contractors wishing to tender should apply before 14th NOVEMBER, 1960, to the County Architect, County Hall, Lewes, Sussex.

Selected Contractors will be provided with Bills of Quantities on 19th NOVEMBER, 1960.

NORTHUMBERLAND
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

TENDERS are required for the ERECTION OF THREE PRACTICAL ROOMS AND ONE CLASSROOM at Walbottle Campus Site, Walbottle, nr Newcastle/Tyne.

Contractors desiring to be considered for inclusion in the list of Tenderers for this work should forward particulars of their name and address together with a deposit value £2 2s. 0d. returnable on receipt of a bona fide Tender, to the County Architect at the address stated below not later than MONDAY, 31st OCTOBER, 1960.

Cheques, etc., should be crossed and payable to "The County Treasurer."

No Tender will be received except in a plain sealed envelope, which may bear the words "Tender for Additional Accommodation—Walbottle Campus Site" but shall not bear any name or mark indicating the sender.

The County Council do not bind themselves to accept the lowest or any Tender.

30-32 Great North-road,
Newcastle upon Tyne, 2.

GRAVESEND
BOROUGH.

IMPROVEMENTS TO NAPIER COTTAGE.

TENDERS returnable by 14th NOVEMBER, 1960, are invited for IMPROVEMENTS AND STRUCTURAL ALTERATIONS TO NAPIER COTTAGE, the Cemetery Extension (approach from Austin-road), Gravesend.

Documents may be obtained from and drawings inspected at the office of the Borough Engineer and Surveyor, 6 Woodville-terrace, Gravesend.

FARNHAM
URBAN DISTRICT COUNCIL.

VEHICLE REPAIR SHOP, SOUTH-STREET DEPOT, FARNHAM.

The Council invite TENDERS FOR the ERECTION OF A VEHICLE REPAIR SHOP at South-street Depot, Farnham, comprising PRECAST CONCRETE FRAME INFILLED WITH BRICKWORK AND ANCILLARY WORKS.

Form of Tender, Specification and Bills of Quantities may be obtained from Geoffrey Poole, A.M.Inst.C.E., Engineer and Surveyor, Council Offices, South-street, Farnham, on deposit of Two Guineas, which is returnable on receipt of a bona fide Tender and/or return of all documents.

The Conditions of Contract are the Articles of Agreement and General Conditions of Contract for use with Quantities as prepared by the Royal Institute of British Architects.

Tenders are to be returned to the undersigned in the endorsed envelope provided not later than FIRST POST on FRIDAY, 18th NOVEMBER, 1960. Late Tenders will not be considered.

The Council do not bind themselves to accept the lowest or any Tender.

H. W. UNDERDOWN,
Clerk of the Council.

Council Offices,
South-street,
Farnham,
Surrey.

EAST SUSSEX
COUNTY COUNCIL.

CHIDDINGLY COUNTY PRIMARY SCHOOL.

TENDERS are to be invited for the PROVISION OF A SANITARY BLOCK, KITCHEN AND BOILER HOUSE.

Contractors wishing to tender should apply before 28th OCTOBER, 1960, to the County Architect, County Hall, Lewes, Sussex.

Selected Contractors will be provided with Bills of Quantities on 22nd NOVEMBER, 1960.

PUBLIC APPOINTMENTS

EALING
BOROUGH.

FOUR ARCHITECTURAL ASSISTANTS, within scale A.P.T. IV according to experience (£1,185-£1,355 inclusive). Must have recognised architectural qualifications.

JUNIOR ARCHITECTURAL ASSISTANT, A.P.T. I (£645-£815 plus London weighting).

Full particulars and forms of application obtainable from Borough Engineer, Town Hall, Ealing, W.5.

Closing date 31st OCTOBER, 1960.

E. J. COPE-BROWN,
Town Clerk.

LEE VALLEY
WATER COMPANY.

APPOINTMENT OF BUILDING INSPECTOR.

Applications are invited for the post of BUILDING INSPECTOR in the Lands and Buildings Section of the Chief Engineer's Department.

The salary will be £925-£1,100 per annum. The duties will consist of planning the routine maintenance of the Company's depots, pumping stations and cottages, reporting on and initiating any special building work required, and supervising contractors and Company's employees carrying out building work. The applicant must have good practical experience in all branches of building and possession of the Building Inspector's Certificate of the Inst.Mun.E., or other similar qualification, will be an advantage. Applicants must also be in possession of a current driving licence.

Applications in writing must be addressed to the Chief Engineer, Lee Valley Water Company, Bishops Rise, Hatfield, and received not later than 26th OCTOBER, 1960.

LONDON
COUNTY COUNCIL.

HAMMERSMITH COLLEGE OF ART AND BUILDING.

Required, as soon as possible, ASSISTANT, Grade B to teach mainly practical and theoretical subjects to Final City and Guilds level in Carpentry and Joinery, also to assist with practical classes in Woodcutting Machinists' Work.

Candidates should hold City and Guilds of London Institute Final and Full Technological Certificates in Carpentry and Joinery. Previous teaching and good industrial experience would be added recommendations.

Salary, £700-£1,150 plus possible additions for approved training and qualifications, and London allowance of £38 or £51. Increments within scale for experience.

Application forms and further particulars from Secretary (FE.3/B/2557/10), Lime Grove, W.12, to be returned within 14 days.

SOUTHPORT
COUNTY BOROUGH.

Applications are invited for the appointment of a TEMPORARY TOWN PLANNING ASSISTANT (Special Grade, £840-£1,145) in the Borough Architect and Town Planning Officer's Department.

Applicants should be capable, with minimum supervision, of undertaking the first review of the Town Development Plan which includes: Land Use Survey of the Borough, Preparation of Maps and Tables, Revision of Written Analysis and Written Statement.

The successful applicant will be required for at least two years.

Application forms may be obtained from the Borough Architect and Town Planning Officer, 99-105 Lord-street. Closing date 5th NOVEMBER.

CARLTON
URBAN DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment at a salary in accordance with Grade IV of the A.P.T. Division of the Scales of Salaries of the National Joint Council commencing at £1,140 per annum and rising by annual increments to £1,310 per annum the point of entry to be determined having regard to the experience of the applicant.

Applicants must be Associates of the R.I.B.A. or Registered Architects.

The appointment will be subject to the provisions of the Local Government Superannuation Acts 1937 to 1953, the National Scheme of Conditions of Service and the satisfactory passing of a medical examination.

Applications stating age, qualifications and details of experience, together with the names of three referees should be forwarded to the undersigned by 10 a.m. on WEDNESDAY, the 26th OCTOBER, 1960.

HOUSING ACCOMMODATION WILL BE MADE AVAILABLE if required and removal expenses will be paid by the Council.

A. E. F. WALKER,
Clerk of the Council.

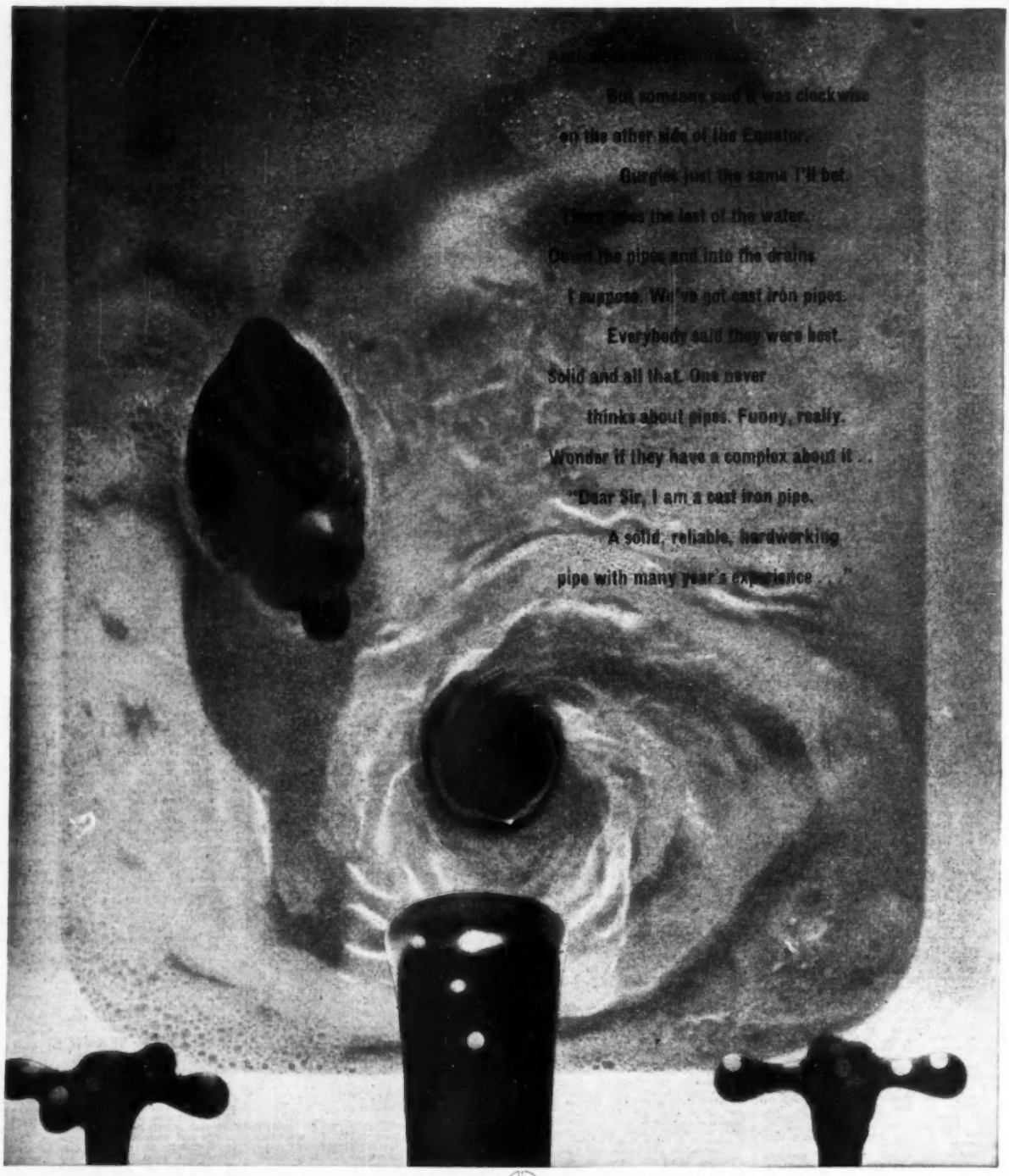
Council House,
Burton-road,
Carlton,
Nottingham.
11th October, 1960.

CIVIL SERVICE
COMMISSION.

ARCHITECTS AND MAINTENANCE SURVEYORS.

Pensionable posts for men and women at least 25 and under 35 on 1st January, 1960 (extension for regular Forces service, Overseas Civil Service, established civil service and temporary Government service as Architect or Maintenance Surveyor). Candidates must be registered Architects or, alternatively, for Maintenance Surveyor posts, have achieved Corporate membership of R.I.C.S. (Building Section), or have passed examinations necessary for attaining Corporate membership. Salary (men, London) £830-£1,125 according to age, rising to £1,300. Promotion prospects. Write 17 North Audley-street, London, W.1, for application form quoting S/60-61.

WHICH WAY DOES A WHIRLPOOL WHIRL?



rainwater and soil goods division of **ALLIED IRONFOUNDERS** KETLEY WELLINGTON SHROPSHIRE
TEL: WELLINGTON 510 (OR FALKIRK STIRLINGSHIRE 2441)

WILTSHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following posts :—

ONE ASSISTANT ARCHITECT, A.P.T. IV, £1,140-£1,310.

ONE ASSISTANT ARCHITECT, A.P.T. III, £960-£1,140.

TWO ARCHITECTURAL ASSISTANTS, Special, £840-£1,145.

THREE ARCHITECTURAL ASSISTANTS, A.P.T. I and A.P.T. II, £645-£960.

Preference given to qualified Architects for the posts graded A.P.T. III and IV and to assistants undertaking a course of study leading to qualification for the remaining posts. Day release may be considered in certain circumstances. Previous Local Government experience is not essential.

The appointments are subject to medical examination, the National Scheme of Conditions of Service and the provisions of the Local Government Superannuation Act, 1937-53, and determinable by one month's notice in writing on either side. Alternative Saturday mornings are free and canteen facilities available.

Applications should be submitted on forms to be obtained from the County Architect. Completed forms, accompanied with the names and addresses of three referees, should be returned to the Clerk of the Council, County Hall, Trowbridge, WITHIN 14 DAYS after the appearance of this advertisement.

WEST HAM
COUNTY BOROUGH.

Applications invited for the following appointments in the Borough Engineer's Department :—

(i) TECHNICAL ASSISTANT, experienced in the preparation of valuations of proprietary interests in land and buildings, the management of estates, and some experience of negotiation.

Salary Grade A.P.T. II, £815-£960 (plus London Allowance £15-£40 p.a. according to age).

(ii) JUNIOR SURVEYING ASSISTANT with sound knowledge of Building Construction, and capable of making surveys and preparing plans, specifications and estimates in connection with public buildings, schools, etc.

Salary Grade A.P.T. I, £645-£815 p.a. (plus London Allowance £15-£40 p.a. according to age).

Commencing salaries within the above grades according to experience.

Full particulars and forms of application returnable by 3rd NOVEMBER, 1960, obtainable from Borough Engineer and Surveyor, West Ham Town Hall, Stratford, E.15.

WEST HAM
COUNTY BOROUGH.

Applications invited for the following appointments in the Works Branch of Borough Engineer's Department :—

(i) GENERAL FOREMEN for large Housing Contracts (including multi-storey flat construction).

Rate of pay within the range of 16 to 18 guineas per week according to size of co

(ii) ASSISTANT ESTIMATOR (BUILDING WORKS). Must be experienced in pricing estimates for building works of all kinds, and knowledge of preparing targets for Incentive Bonus Schemes an advantage.

Salary within the range of £645-£815 p.a. plus London Allowance £15-£40 p.a.

Applications in writing, giving full particulars of experience, age, etc., should be addressed to Borough Engineer and Surveyor, West Ham Town Hall, Stratford, E.15, immediately.

GREENWICH
METROPOLITAN BOROUGH.

APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited from suitably qualified persons with experience of multi-storey building, for appointment in the Borough Engineer and Surveyor's Department, at a salary of £880 to £1,190 per annum (including London Weighting). The commencing salary will be according to qualifications and experience.

The successful candidate will be given opportunities for designing schemes and bringing them through to completion, as part of a varied and imaginative building programme in historic Greenwich.

Application forms obtainable from the Town Clerk, Town Hall, Greenwich, S.E.10, returnable by NOON on WEDNESDAY, 2nd NOVEMBER, 1960.

G. C. TURK,
Town Clerk.

Town Hall,
Greenwich, S.E.10.
October, 1960.

BUCKS
WATER BOARD.

CLERK OF WORKS required for a period of approximately 18 months in connection with the erection of extensions to the Board's existing Head Offices in Aylesbury. The Contract is in the region of £100,000, and experience of similar sized contracts is desirable. Applications giving full particulars, including age, experience, present salary, and salary required, to

R. PAWNALL,
Engineer & Manager.

Byran Road,
Aylesbury.

WELSH REGIONAL HOSPITAL BOARD
Regional Architect's Department

Applications invited for the following posts:—

	Salary.
(a) **Principal Assistant Architect Grade II**	£1,665—£2,035
(b) **Assistant Architect**	£905—£1,310
(c) **Draughtsman**	£475—£685

Applicants for posts (a) and (b) must be registered Architects holding the final examination of the Royal Institute of British Architects. The former must be thoroughly experienced in the preparation of working and detailed drawings, specifications and supervision of works in progress. A knowledge of hospital planning and design is essential. The successful candidate will be responsible to the Regional Architect for a major division of work, involving travelling throughout the Principality. A motor mileage allowance and subsistence expenses in accordance with scale will be paid. Applicants for post (b) must be well experienced in design and modern methods of construction together with practical building experience. Post (c) requires applicants to have had suitable training and three years' experience in an architect's office.

All posts are superannuable and a five day week applies.

Applications to be sent to the Secretary, Temple of Peace and Health, Cathays Park, Cardiff, stating age, qualifications, experience, present position and salary and names of two referees within 10 days.

New Entrants to the Health Service will commence at the minimum point of the salary scale except that in the case of posts (b) and (c) the Board has discretion to fix a starting point at an incremental point above the minimum where it is considered a candidate has relevant practical experience appropriate to the post to be filled.

DUMFRIES
ROYAL BURGH.

DEPUTY BURGH ARCHITECT.

Applications are invited from Qualified ARCHITECTS, preferably with experience in Redevelopment work.

The appointment, within the Salary Scale £1,140-£1,220 (i.e. £100 in excess of Admin. Grade D of the N.J.I.C. Scheme) will be subject to the Town Council's Superannuation Scheme and N.J.I.C. Conditions of Service, and the successful applicant will require to pass a medical examination.

If required, the tenancy of a Council house will be given to the successful applicant.

Applications, stating age, qualifications and experience, together with copies of three recent testimonials, or the names of three referees, should be lodged with the undersigned not later than 2nd NOVEMBER, 1960.

GEORGE D. GRANT,
Town Clerk.

Municipal Chambers,
Dumfries.
12th October, 1960.

SOUTH CAMBRIDGESHIRE
RURAL DISTRICT COUNCIL.

CLERK OF WORKS.

Applications are invited for the above appointment. Salary—A.P.T. Grade I—(£645-£815). Essential user car allowance. POST-WAR HOUSE AVAILABLE in the rural area.

The appointment is in the Architect and Surveyor's Department and requires practical experience in the building trade, levelling, setting out work, supervising erection and maintenance of houses and site works including small sewage plants.

Applications with full particulars and names of two referees, to reach the undersigned by 1st NOVEMBER, 1960.

F. H. M. SARGENT,
Clerk of the Council.

County Hall,
Hobson-street,
Cambridge.

LONDON
ELECTRICITY BOARD.

ARCHITECTURAL ASSISTANTS.

Applications are invited for the above positions in the Chief Engineer's Architect's Section at Lesco House, Stamford Street, S.E.1.

Applicants should be studying for, or have passed, the Intermediate Examination of the R.I.B.A., be capable draughtsmen and have had several years' experience in an architect's office.

Salary within the range £940-£1,065 p.a. incl.

Application form obtainable from the Personnel Officer, 46 New Broad-street, E.C.2, to be returned completed WITHIN 14 DAYS of the publication date of this notice. Please quote ref. : PER/V/2997/B.

CAMBRIDGE UNIVERSITY.

QUANTITY SURVEYING ASSISTANT, male or female, required for site measuring, final accounts, abstracting and billing. Salary scale £624-£806 for applicant with suitable qualifications and experience, but appointment will be considered in £455-£637 grade for less qualified applicants. Family allowance and superannuation schemes in operation. Pleasant working conditions and generous leave allowance.

Applications in writing, together with recent testimonials or names of referees, should reach the Chief Clerk, Dept. of Estate Management, 74 Trumpington-street, Cambridge, by MONDAY, 24th OCTOBER, 1960.

ENFIELD
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

(Non-County Borough in the County of Middlesex—Population 109,700. Area—12,400 acres.)

Applications are invited, from suitably qualified persons, for the following permanent appointments :—

1. ARCHITECTURAL ASSISTANT, A.P.T. II, £815-£960 per annum plus London Weighting.

2. JUNIOR ARCHITECTURAL ASSISTANT, A.P.T. I, £645-£815 per annum plus London Weighting.

The commencing salary will be fixed at points within the Scale commensurate with qualifications and experience.

There is a large varied programme of work, including the re-development of Clearance Areas and other areas scheduled for Comprehensive Development.

Housing Accommodation may be made available in appropriate cases. The Council is also prepared to consider 100 per cent. advances to successful applicants for house purchase within the Borough.

Saturday mornings are normally free from duty.

Application forms, obtainable from H. D. Peake, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park-gardens, Enfield, Middlesex, must be delivered to the undersigned not later than MONDAY, 7th NOVEMBER, 1960.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Enfield,
Middlesex.

COVENTRY CITY.
DEPARTMENT OF ARCHITECTURE AND PLANNING
(QUANTITY SURVEYING DIVISION).

SECTION QUANTITY SURVEYOR. Corporate Member of R.I.C.S. Scale "B"—£1,305 to £1,485 (plus approximately 12½ per cent—revised scale awaited).

Appointment may be made within Scale if appropriate. Permanent and pensionable subject to satisfactory medical history.

HOUSING ACCOMMODATION in approved circumstances. Removal expenses loan.

Appointed person will be in charge, under Chief Quantity Surveyor, of a pre-Contract Section dealing with estimates, cost analyses and cost plans and production of Bills of Quantities for an interesting programme of major City redevelopment projects, schools and public buildings also smaller works of a varied nature.

Broad general experience and knowledge of cost planning techniques, use of element Bills and taking-off for major works essential. Experience of CLASP and other modern methods of construction an advantage.

Details and application form from City Architect and Planning Officer, Council House, Coventry, returnable by 14th NOVEMBER, 1960.

KENT
COUNTY COUNCIL.

ARCHITECTS are required in the office of the County Architect to assist with the Council's expanding building programme which includes schools, colleges, residential homes and other public buildings. The salary range extends to £1,480 a year, the starting grade and salary depending on qualifications, ability and experience. Application forms and further details from the County Architect, Springfield, Maidstone. Closing date 31st OCTOBER, 1960.

WINCHESTER CITY.

Applications are invited for the posts of (a) JUNIOR ARCHITECTURAL, and (b) JUNIOR ENGINEERING ASSISTANTS in the City Engineer's Department. Salary within Grade A.P.T. I, according to qualifications and experience. The appointments are subject to the terms and conditions laid down by the Southern Provincial Council and to the Local Government Superannuation Act.

Applications stating age and details of experience, together with the names of two referees, should be addressed to the City Engineer, Guildhall, Winchester, and should reach him not later than MONDAY, 31st OCTOBER, 1960.

In the case of (a) the post has been designated as a key post for housing purposes, and suitable housing accommodation will be made available.

R. H. McCALL,
Town Clerk.

Guildhall,
Winchester.
4th October, 1960.

MINISTRY OF HEALTH.

HOSPITALS RESEARCH AND DEVELOPMENT.
ARCHITECTS (MAIN GRADE).

Two pensionable posts in London for Registered ARCHITECTS (men or women) normally at least 35 on 1st November, 1960, with experience of client-architect briefing, collaboration with engineers, manufacturers, or research organisations in the development of new techniques or specialist services, and of design cost data. No previous hospital building experience necessary. Duties include examination of current schemes and collation of past and current experience in the planning, design, construction and building costs of hospital and other health buildings; and the production of Hospital Building Notes. Salary (men) £1,325-£1,780. Starting salary may be above minimum. Write Civil Service Commission, 17 North Audley-street, London, W.1, for application form quoting S/5219/60. Closing date 11th NOVEMBER, 1960.

CIVIL SERVICE
COMMISSION.

QUANTITY SURVEYING ASSISTANTS: ADMIRALTY.

Up to 5 pensionable posts for men and women at least 21 on 1st August, 1960. Qualifications: (a) City and Guilds Final Certificate (Sections A and B) in Builders' Quantities, *or* (b) O.N.C. in Building, *or* (c) Licentiate Diploma of the Institute of Builders, *or* (d) evidence of equivalent standard of technical education. At least 5 years' appropriate training and experience essential. Starting salary (men, London) £690 at 21 to £875 at 28 or over. Scale maximum £975. Promotion prospects. Write 17 North Audley-street, London, W.1, for application form, quoting S/5209/60. Closing date 22nd NOVEMBER, 1960.

LANCASHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

SENIOR ASSISTANT ARCHITECTS, N.J.C. Scale "B," £1,320 to £1,485 (now under review) according to experience.

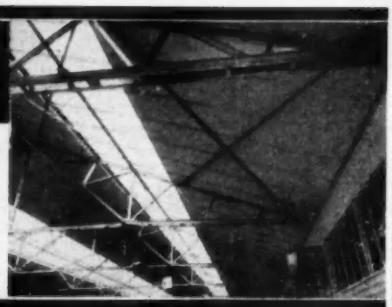
Applications are invited from experienced, registered ARCHITECTS to deal with a wide variety of buildings, including Magistrates' Courts, Police Training Schools and Technical Colleges.

Application Forms and details of appointment from The County Architect, P.O. Box 26, County Hall, Preston, returnable by 4th NOVEMBER, 1960, quoting reference A/B.

new techniques & long experience

AT YOUR SERVICE WITH

METCO
METAL FIXING SYSTEMS

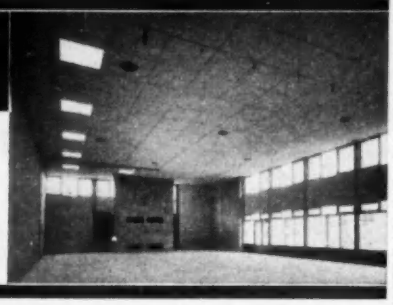


STRUCTURAL INSULATION

SOUND ABATEMENT

UNITEX
ACOUSTIC TILES

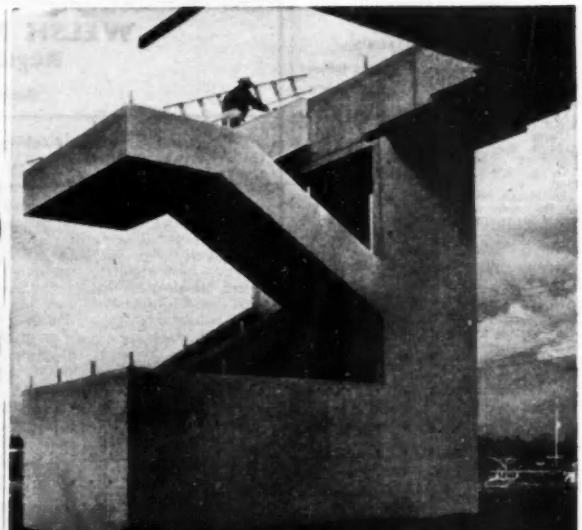
'VEELAP'
INSULATING PANELS



SUSPENDED CEILINGS
3′ 4″ module
(other sized panels available)

Bring us your problems for complete and up-to-date service 'from drawing-board to finished job'. We'll be glad to help you.

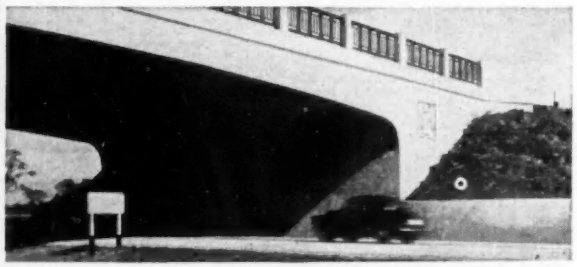
The MERCHANT TRADING COMPANY Limited
ADRIENNE AVENUE, SOUTHALL, MIDDX.
TELEPHONE: WAXLOW 6381



CONCRETE SHUTTERING

STRUCTURAL DESIGN FREEDOM

Canadian Douglas Fir Plywood is an excellent, low-cost material for shuttering work. Large 8′ x 4′ panels can provide unbroken concrete surfaces and reduce the amount of complicated joinery often necessary with concrete form work. Shuttering made with Fir Plywood is economical because it can be used many times. It stands up to rugged outdoor use. Only 100% waterproof and boilproof glue is used in the production of Fir Plywood edge-marked PMBC EXTERIOR. For intricate forms or for conventional shuttering, lightweight, waterproof glue Fir Plywood saves money for the builder.



Canadian Fir Plywood shuttering is used on the construction of many bridges like this one where low cost and fine finish are important. There are many grades and thicknesses of Fir Plywood to suit all concrete form and construction jobs.

CANADIAN
DOUGLAS FIR PLYWOOD

For technical data on Canadian Fir Plywood, write to the
PLYWOOD MANUFACTURERS ASSOCIATION OF BRITISH COLUMBIA
4 Carmelite Street, London, E.C.4.

FIR PLYWOOD MARKED
PMBC EXTERIOR
HAS WATERPROOF GLUE

60-PA-2

SALFORD CITY.

DIRECT LABOUR
BUILDING DEPARTMENT.

Applications are invited for the undermentioned appointments:

(a) BUILDING SURVEYOR, A.P.T. IV £1,140-£1,310.

(b) TWO BUILDING SURVEYORS, A.P.T. III, £960-£1,140.

(c) ASSISTANT BUILDING SURVEYOR, A.P.T. II, £815-£960.

(d) SURVEYOR'S CLERK (Male or Female), General Division, £260-£630.

Candidates for (a) must have previous experience in Bills of Quantities, Estimating, Bonus Incentive Scheme, Purchasing, Interim Valuations, Final Accounts and pre-planning of major contract work.

Qualifications: Corporate Member of Bldg. S.I.-I.A.A.S. or equivalent.

Candidates for (b) must have experience in measuring and site records, Bonus Incentive Schemes, Purchasing, Interim Valuations and Final Accounts. Commencing salary will be within the scale of A.P.T. III dependent on experience and qualifications.

Candidates for (c) must have experience in the preparation of Bills of Quantities and Estimates for maintenance work and improvements. Commencing salary will be within the scale of A.P.T. II dependent on experience and qualifications.

Qualifications for (b) and (c): Higher National Certificate with endorsements.

Candidates for (d). It would be an advantage if the applicants have experience in keeping records, progress charts and general clerical duties in a Surveyor's Office. Salary (within the General Division Grade) according to age, experience and qualifications.

For all vacancies facilities will be available for further professional training and the appointments are subject to the National Scheme of Conditions of Service for Local Authorities. All posts are superannuable and subject to a medical examination.

For posts (a), (b) and (c) housing accommodation may be considered in approved circumstances.

Applications, stating age, education and full particulars of experience, together with the names and addresses of two referees, must be received by the General Manager, Direct Labour Building Department, Unwin-street, Cross-lane, Salford 6, not later than MONDAY, 14th NOVEMBER, 1960.

AIR MINISTRY.

QUANTITY SURVEYING ASSISTANTS, Grade III, required in the PROVINCES. Duties include abstracting and billing, site measurement and preparation of estimates. Candidates must hold O.N.C. (Building or Builders' Quantities) or equivalent and have good experience under Quantity Surveyor or Building Contractor. Knowledge W.D. Schedule an advantage. Financial assistance and time off given for recognised courses of study. Promotion and pension prospects. 5-day week with 18 days' paid leave a year initially. Overseas tours for which special allowances granted.

Salary ranges from £770 (at age 26) to £925. Commencing salary dependent upon age, qualification and experience. Applicants, who must be natural born British subjects, should write, stating age, qualifications and previous appointments, including type of work done, to Manager (PE.2), Ministry of Labour, Professional and Executive Register, Atlantic House, Farringdon-street, London, E.C.4. No original testimonials should be sent. Candidates selected will normally be interviewed in London and certain expenses reimbursed. Only applicants selected for interview will be advised.

BIRMINGHAM

REGIONAL HOSPITAL BOARD.

ASSISTANT ARCHITECTS required for interesting work on all types of hospital architecture. Applicants must be registered architects having passed the requisite examinations. Salary scale £905-£1,310; commencing salary according to age and experience.

Apply, naming two referees, to Secretary, 10 Augustus-road, Birmingham, 15, as soon as possible.

ACCRINGTON

BOROUGH.

Applications are invited for the following PERMANENT POSTS in the Borough Engineer's Department:—

(a) QUANTITY SURVEYOR, A.P.T. Grade III.

(b) ARCHITECTURAL ASSISTANT, A.P.T. Grade I.

The posts offer interesting work in a variety of projects including central area redevelopment, new market, 'bus station, etc.

Applicants should be suitably qualified and for post (a) should have experience in preparation of bills, taking-off, measurement of works and settlement of final accounts.

Housing accommodation will be provided if required.

The appointments will be subject to N.J.C. service conditions and to a medical examination.

Applications, with the names of two referees, stating post applied for, should be sent to the Town Clerk, Town Hall, Accrington, by 31st OCTOBER, 1960.

AIR MINISTRY.

Works Designs Branch requires in LONDON and PROVINCES ARCHITECTURAL ASSISTANTS with adequate training and drawing office experience. O.N.C. (Building) an advantage. Work includes site layouts, sketch plans, working drawings and details for variety of technical and domestic buildings in permanent and semi-permanent construction. Financial assistance and time off given for recognised courses of study. Promotion and pension prospects. 5-day week with 18 days' paid leave per year initially. Overseas tours for which special allowances granted.

Salary: in LONDON ranges from £805 (age 25) to £980 p.a., somewhat lower in PROVINCES. Commencing salary dependent on age, qualifications and experience. Applicants, who must be natural born British subjects, should write (quoting Order No. Kings Cross 897) to Air Ministry, W.G.d. Lacon House, Theobalds-road, London, W.C.1, or to any Employment Exchange, giving age, details of training, qualifications, full particulars of former posts held and copies of any testimonials. Candidates selected will normally be interviewed in London and certain expenses reimbursed.

SCUNTHORPE

BOROUGH.

CLERK OF WORKS FOR 14-STOREY BLOCK OF FLATS, WESTCLIFF ESTATE.

Applications are invited for the temporary appointment of CLERK OF WORKS for the above scheme. It is expected that the building operations will commence towards the end of 1960 with an anticipated contract period of 18 months.

Applicants must have appropriate experience including reinforced concrete frame construction.

The salary will be at the rate of £17 per week.

Applications, with full details of qualifications, past experience and age, together with the names and addresses of two referees, must reach the undersigned not later than TUESDAY, 1st NOVEMBER, 1960.

T. M. LISTER,
Town Clerk.

Municipal Offices,
34 High-street,
Scunthorpe.
11th October, 1960.

NEWCASTLE-UNDER-LYME

BOROUGH.

REQUIRES:

(a) ASSISTANT ARCHITECT, Special Grade. Salary £840-£1,145 p.a.

(b) ARCHITECTURAL ASSISTANT, Grade A.P.T. II. Salary £815-£960 p.a.

Applicants for (a) are required to have passed Parts 1 and 2 of the R.I.B.A. Final or Special Final Examination.

Applicants for (b) should have passed the Intermediate examination, and will be allowed to attend a one day per week school course leading to the Final examination.

Commencing salaries will be in accordance with qualifications and experience.

Favourable consideration will be given to the provision of housing accommodation in suitable cases.

Further particulars and conditions of appointments may be obtained from the Borough Surveyor, Lancaster Building, Newcastle, Staffs., to whom applications must be submitted by TUESDAY, 1st NOVEMBER, 1960.

C. J. MORTON,
Town Clerk.

District Bank House,
High-street,
Newcastle,
Staffs.

NORTHUMBERLAND

COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment on the permanent staff of this Department:

(1) ASSISTANT QUANTITY SURVEYOR.

Salary on A.P.T. Scales Grade 2, £815-£960 (subject to County Council approval). Applicants must have passed the Intermediate Examination in Quantity Surveying of the Royal Institution of Chartered Surveyors.

Application forms which can be obtained from the undersigned should be submitted not later than THURSDAY, 3rd NOVEMBER, 1960.

The appointment will be subject to the provisions of the Local Government Superannuation Acts and the successful candidate will be required to pass a medical examination.

C. C. BROWN, A.R.I.B.A.,
County Architect.

30-32 Great North-road,
Newcastle upon Tyne, 2.

BRACKNELL

DEVELOPMENT CORPORATION.

Applications are invited for the post of CLERK OF WORKS in the Chief Architect's Department. Salary range £880-£1,065. Superannuation schemes, medical examination. Housing available.

Apply by 1st NOVEMBER, 1960, stating age, when available to commence duties, experience and appointments held (with dates and salaries) and names of two referees, to General Manager (C.W.A.), Bracknell Development Corporation, Farley Hall, Bracknell, Berks.

LANARK COUNTY COUNCIL

COUNTY ARCHITECT'S DEPARTMENT

The Council have decided that all Architectural Work of an Educational and Public Building Nature will in future be undertaken by the County Architect. Consequently a considerable reorganisation and expansion of the County Architect's Department at Motherwell is envisaged, creating a large number of vacancies for

ARCHITECTS and ASSISTANTS

Salaries ranging from

£1,650 to £605

according to qualifications and experience.

The vacancies include a considerable number on salary range £1,450-£1,600 and afford opportunity to qualified Architects to apply their ability and knowledge to progressive design and modern construction techniques.

A Superannuation Scheme is in operation and a 5-day week is under consideration.

Consideration given to applicants' housing requirements.

Applications to County Clerk,

P.O. Box No. 1, Glasgow.

OXFORD CITY.

CITY ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Applications are invited for the undermentioned posts:

ARCHITECTURAL ASSISTANTS, Special Classes/A.P.T. IV (within the range £840-£1,145/£1,140-£1,310).

The successful applicants must be Members of the Royal Institute of British Architects and should have several years' experience, possess a wide knowledge of modern methods of construction and contract procedure, and must be capable of carrying through contracts from sketch stage to completion with minimum supervision. A high standard of design ability and a keen interest in contemporary architecture is expected. Assistants are encouraged to control their own contracts from sketch design onwards.

Suitable housing accommodation will be made available, if required, in connection with the above appointments. Five-day week.

The appointments will be subject to the National Conditions of Service and the successful candidates will be required to pass a medical examination.

Application forms to be obtained from the City Architect and Planning Officer, Town Hall, Oxford. Closing date 11th NOVEMBER, 1960.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.
14th October, 1960.

AYLESBURY

BOROUGH.

APPOINTMENT OF ASSISTANT CLERK OF WORKS.

Applications are invited for the appointment of an ASSISTANT CLERK OF WORKS under the Consultant Architect at a salary in accordance with Miscellaneous Grade V (i.e. £685 to £760 p.a.) according to qualifications and experience.

The successful applicant will be required to assist in the supervision of the housing and industrial development programme in Aylesbury.

Applications stating age, qualifications and experience together with the names of two persons to whom reference may be made must be delivered to the undersigned not later than 31st OCTOBER, 1960.

R. D. W. MAXWELL,
Town Clerk.

Town Hall,
Aylesbury.

MINISTRY OF HEALTH.

HOSPITALS RESEARCH AND DEVELOPMENT UNIT.

Applications are invited from Registered ARCHITECTS (men and women) for four (two Main, two Basic Grade) unestablished posts in London for a period of at least twelve months.

Applicants should have experience of client-architect briefing, collaboration with engineers, manufacturers, or research organisations in the development of new techniques or specialist services, and of design cost data. No previous hospital building experience necessary.

Duties include examination of current schemes and collation of past and current experience in the planning, design, construction and building costs of hospital and other health buildings, the production of Hospital Building Notes and the design of buildings for development purposes.

Salary: (Main Grade) £1,325-£1,780, (Basic Grade) £830-£1,300. Commencing salary dependent on age, qualifications and experience. Five-day week.

Applications (two copies) stating nationality, date of birth, qualifications, experience, present appointment and three referees to the Director of Establishments and Organisation, Ministry of Health, Savile-row, London, W.1, by 11th NOVEMBER, 1960.

GREENWICH

METROPOLITAN BOROUGH.

APPOINTMENT OF ASISTANT GENERAL FORMEMAN.

Applications are invited for the above position in the Borough Engineer's and Surveyor's Department. Salary: Miscellaneous Grade VI (£800-£865 per annum, including London Weighting, at age 26 or above). Commencing salary according to age, experience and qualifications.

Applicants must be tradesmen with a comprehensive knowledge of the building trade, and control of men, and should hold a current driving licence.

The successful applicant will be required to work a 44-hour week under the direct control of the General Foreman on maintenance of houses and municipal buildings, also conversion of acquired properties, and will be responsible for all trades, other than painters.

Forms of application are obtainable from the undersigned and returnable by NOON on WEDNESDAY, 2nd NOVEMBER, 1960.

G. C. TURK,
Town Clerk.

Town Hall,
Greenwich, S.E.10.
October, 1960.

Lancashire County Council

TRAINEE ARCHITECTS & QUANTITY SURVEYORS

There are vacancies in the County Architect's Department for Trainee Architects and Quantity Surveyors. The office offers a wide scope for young men of the right calibre who wish to take up a professional career.

The applicants should be between the ages of 16 and 21 and should apply immediately for further details to the County Architect, **P.O. Box 26,** County Hall, Preston.

SOUTHAMPTON
COUNTY BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECT, Grade A.P.T. III-IV (£960-£1,310), for duties in connection with housing estate development. Applicants must have passed Parts I and II of the R.I.B.A. final examination. Commencing salary according to experience and qualifications.

(b) ASSISTANT ENGINEER, Grade A.P.T. III-IV (£960-£1,310). Applicants must be graduates of the Institution of Civil Engineers or hold the Testamur of the Institution of Municipal Engineers, or an engineering degree, with experience in the design and construction of sewage disposal works. Commencing salary according to qualifications and experience.

(c) ENGINEERING ASSISTANT, Grade A.P.T. II (£815-£960). Must have completed professional training, passed the intermediate examination of a recognised engineering institution and have had subsequent experience in a Municipal Engineer's office.

The appointments are subject to the N.J.C. conditions of service, with housing accommodation available in approved cases, and approved removal expenses reimbursable up to a maximum of £50.

Apply on application forms obtainable from the Borough Engineer and Surveyor, Civic Centre, Southampton, returnable by not later than MONDAY, 7th NOVEMBER, 1960.

SHREWSBURY
BOROUGH.

ARCHITECTURAL ASSISTANT.

Applications are invited for the post of ARCHITECTURAL ASSISTANT on the permanent staff of the Borough Surveyor at a salary in accordance with the Special Grade, £840-£1,145 per annum, commencing according to qualifications and experience.

Housing accommodation will be provided and approved removal expenses paid. Five-day week. Varied programme of work in busy office.

Applications stating age, qualifications and experience, and names of two referees to be sent to the Borough Surveyor, Guildhall, Shrewsbury, by MONDAY, 31st OCTOBER, 1960.

SOUTHAMPTON
GROUP HOSPITAL MANAGEMENT COMMITTEE.

WORKS ASSISTANT, male, required in the Group Maintenance Department. Experience in preparing simple drawings and some knowledge in the preparation of specifications and estimates of cost desirable. Salary according to age, £465 p.a.-£590 p.a., rising to £690 p.a. Applications, stating age and experience to be forwarded to the Group Secretary, Southampton Group Hospital Management Committee, Tremona-road, Shirley, Southampton, by 31st OCTOBER, 1960.

STOCKPORT
COUNTY BOROUGH.

BUILDING INSPECTOR required. Salary A.P.T. II (£725-£845—subject to review) on Borough Surveyor's permanent staff. Applicants should hold the Building Inspector's Certificate of the Institution of Municipal Engineers or its equivalent. A Higher National Certificate in Building Construction and experience in administration of Building Byelaws and Public Health Acts, etc., an advantage. Post pensionable subject to medical examination and terminable by one month's notice on either side.

Applications stating age, qualifications, experience and names of two referees, to Borough Surveyor, Town Hall, Stockport, by NOON, 4th NOVEMBER, 1960. Canvassing disqualifies. Applicants must state if related to any member/senior officer of Council.

HUNTINGDONSHIRE.
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:

(a) ARCHITECTURAL ASSISTANTS, Special Grade (£785-£1,070).

(b) ARCHITECTURAL ASSISTANT, Grade A.P.T. II (£765-£880).

The persons appointed will become members of small architectural teams engaged in projects of varying size. It is desired that the persons appointed shall be keenly interested in architecture with an up-to-date approach to both planning and design.

Application forms and further particulars may be obtained from The County Architect, County Buildings, Huntingdon; completed forms should be returned to the undersigned as soon as possible.

A. C. AYLWARD,
Clerk of the County Council.
County Buildings,
Huntingdon.

Amended Advert.

LEEDS
REGIONAL HOSPITAL BOARD.

Applications are invited for the post of ASSISTANT CLERK OF WORKS (Building) in connection with the construction of a new multi-storey reinforced concrete framed general hospital at Huddersfield (500 beds approximate cost £3,500,000). The Building work commenced this year and it is anticipated that site works will continue until 1962-63.

Membership of Institute of Clerks of Works and ability to keep site records would be an advantage.

Salary scale £600-£750 per annum (which, with overtime, could be in the region of £1,000 per annum).

Applications stating age, qualifications, previous experience together with names and addresses of two persons to whom reference may be made to the Secretary, Park Parade, Harrogate, by not later than 12th NOVEMBER.

ESSEX
COUNTY COUNCIL.

Required on the established staff:—

(a) SECTIONAL ASSISTANT QUANTITY SURVEYOR, J.N.C. Scale "B," salary not exceeding £1,485 (under review).

(b) ASSISTANT QUANTITY SURVEYOR, Special Grade, salary not exceeding £1,145.

Candidates for (a) required for Taking-Off and billing, measuring and adjusting variations, interim certificates; and for (b) similar duties in connecton with minor works.

(c) SENIOR ASSISTANT ARCHITECT, A.P.T.D. Grade V, salary not exceeding £1,480.

(d) ASSISTANT ARCHITECTS, Special Grade, salaries not exceeding £1,145.

Development includes homes for the aged, colleges, libraries, schools and other public buildings.

Application forms from H. Conolly, C.B.E., F.R.I.B.A., County Architect, County Hall, Chelmsford, Essex, returnable with copies of three testimonials by 10th NOVEMBER, 1960.

KEYNSHAM
URBAN DISTRICT COUNCIL.

QUANTITY SURVEYOR.

Applications are invited for the appointment of QUANTITY SURVEYOR. Salary Grade A.P.T. IV (£1,140-£1,310), according to qualifications and experience.

Applicants should have passed the Final Examinations of the appropriate professional body and should have had experience in taking off building quantities for housing and other building works, together with contract negotiations, site measurement and settlement of interim certificates and final accounts.

Housing accommodation available if required.

Applications, stating age, qualifications and particulars of experience, and the names of two referees, should reach the Clerk of the Council, Council Offices, Keynsham, Bristol, by 28th OCTOBER 1960.

BUCKS
COUNTY COUNCIL.

Applications are invited for the following appointments in the County Architect's Department:—

ASSISTANT COUNTY ARCHITECT, J.N.C. Scale "D," £1,520-£1,755 p.a.

ASSISTANT ARCHITECT, J.N.C. Scale "C," £1,385-£1,620 p.a.

ASSISTANT ARCHITECT, A.P.T. Grade V, £1,220-£1,375 p.a.

ARCHITECTURAL ASSISTANT, A.P.T. Grade III, £880-£1,065 p.a.

These appointments are superannuable and subject to medical examination and applicants should be suitably qualified for architectural appointment.

A weekly allowance of 25s. and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation.

Applications, on forms provided, must be returned by the 7th NOVEMBER, 1960.

F. B. POOLEY,
County Architect.

County Offices,
Aylesbury,
Bucks.

MALDEN AND COOMBE
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
SENIOR ASSISTANT ARCHITECT.

Applications are invited from Chartered Architects for the appointment of SENIOR ASSISTANT ARCHITECT, Grade A.P.T. IV, £1,140-£1,310, plus London "Weighting" and car allowance of £75 per annum, commencing salary according to experience and qualifications. Forms of application, which must be returned endorsed by not later than MONDAY, 7th NOVEMBER, 1960, to be obtained from John Apse, A.M.I.C.E., Borough Engineer and Surveyor.

HAROLD E. BARRETT,
Town Clerk.

Municipal Offices,
New Malden,
Surrey.

LANCASHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

SENIOR ASSISTANT ARCHITECTS, N.J.C. Scale "B"—£1,320 to £1,485 (now under review) according to experience, and covered by Lancashire County Council Superannuation Scheme.

The Governors of Salford College of Advanced Technology are proceeding with a major expansion of the College. This project is to be of advanced design, offering opportunity for experience in the design of buildings to meet the needs of pioneer scientific processes, which are estimated to cost £3,000,000.

The team for this scheme will work with Messrs. Ove Arup & Partners, Structural Consultants, and will include Quantity Surveyors and Mechanical Engineers. The team will work in the County Architect's Office at Preston.

On completion of the project, Architects will be engaged on a wide variety of new buildings for the Lancashire County Council.

Application Forms and details of appointment from:—

The County Architect, P.O. Box 26, County Hall, Preston, returnable by 4th NOVEMBER, 1960, quoting reference A/B.

EAST HAM
COUNTY BOROUGH.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following temporary appointments:—

SENIOR ASSISTANT ARCHITECTS, Grade IV, £1,185-£1,355.

Salaries in excess of the minimum may be paid according to qualifications and experience. The appointments are for work on a new Technical College and are expected to be for a period of not less than two years.

Further details and application forms returnable by 4th NOVEMBER, 1960, from the Town Clerk, Town Hall, East Ham, E.6.

HAMPSTEAD
METROPOLITAN BOROUGH.

Require in the Housing Architect's Department:—

ARCHITECTURAL ASSISTANT (GROUP LEADER) on the permanent staff to lead a Group on area redevelopment and the design and construction of new flats and houses.

Salary within new A.P.T. Grade IV (£1,140-£1,310 per anum) plus London Weighting allowance.

Applicants must be Members of the Royal Institute of British Architects. Applications, giving training, experience, previous appointments and names of two referees, are to be sent to the Town Clerk (B), Town Hall, Haverstock Hill, N.W.3, by 26th OCTOBER, 1960. No housing provided.

ILFORD
BOROUGH.

BOROUGH ENGINEER'S DEPARTMENT.
APPOINTMENT OF SENIOR ASSISTANT QUANTITY SURVEYOR, GRADE A.P.T. IV.

Applicants must have qualified by examination as Professional Associates of the Royal Institution of Chartered Surveyors (Quantities sub-division) and be competent in taking off with a wide range of experience.

An interesting programme of work is envisaged including a variety of municipal buildings and housing.

The commencing salary will be fixed within the scale (£1,185-£1,355 inclusive of London Weighting) according to qualifications and experience. Five-day working week is in operation.

The appointment will be subject to one month's notice on either side, to the provisions of the Local Government Superannuation Acts, to the National Conditions of Service and to satisfactory medical examination.

The Council is prepared to consider, if necessary, the provision of housing accommodation.

Application forms obtainable from the Borough Engineer, Town Hall, Ilford, should be returned not later than MONDAY, 7th NOVEMBER.

SHOREDITCH BOROUGH COUNCIL

ASSISTANT ARCHITECT

has a vacancy for a qualified Assistant Architect for varied and interesting programme of important public buildings.

Salaries £1185—£1355 p.a.

Applications to: **BOROUGH ARCHITECT, TOWN HALL, E.C.1**

FRIMLEY AND CAMBERLEY
URBAN DISTRICT COUNCIL.

CLERK OF WORKS (HOUSING).

Applications are invited from suitably qualified persons for the ABOVE APPOINTMENT which is temporary, but its duration is expected to be approximately two years. Applicants must have had considerable experience in the supervision of housing construction, have a sound knowledge of all the trades in connection therewith, including the measurement of all works on the site and the keeping of full records.

The appointment will be subject to one month's notice on either side and the salary will be £1,000 per annum.

Housing accommodation will be provided if required and reasonable removal expenses will be paid.

Applications stating age, experience, etc., together with names of two referees should be delivered to the Engineer and Surveyor, Municipal Buildings, Camberley, Surrey, not later than FIRST POST on TUESDAY, 1st NOVEMBER, 1960.

K. S. HARVEY,
Clerk of the Council.

Municipal Buildings,
London-road,
Camberley,
Surrey.
14th October, 1960.

SOUTHWARK
METROPOLITAN BOROUGH.

Applications are invited for the following appointments on the establishment of the Borough Engineer and Surveyor's Department:

ARCHITECTURAL ASSISTANTS: A.P.T. I (£685 to £855) *or* A.P.T. II (£855 to £1,000).

Vacancies in design groups dealing with mixed housing and other development. Applicants should possess Intermediate R.I.B.A. for A.P.T. II.

If under 26 years of age, the salaries will be £15 per annum less.

Council's Conditions of Service of Officers and Superannuation Scheme apply. Medical examination. No housing. Canvassing will disqualify. Further particulars from the undersigned. Closing date first post on 4th NOVEMBER, 1960.

E. J. PITT,
Town Clerk.

Southwark Town Hall,
(Near Elephant and Castle
Underground Station),
Walworth-road, S.E.17.

MANSFIELD
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited from suitably qualified persons for the following vacancies in the Borough Engineer and Surveyor's Department (Architects Section):—

(a) JUNIOR ARCHITECTURAL ASSISTANT. Grade A.P.T. I. £645-£815.

(b) QUANTITY SURVEYING ASSISTANT, Special Grade, £840-£1,145.

(c) TRACER - DRAUGHTSMAN (ARCHITECTURAL AND CIVIL ENGINEERING), General Division, £260-£630.

The commencing salary in each case will depend on age and qualifications and experience.

Applications, stating age, training, qualifications, present and past appointments and experience and the names of three referees, should be sent to the Borough Engineer and Surveyor, Carr Bank, Mansfield, appropriately endorsed to arrive not later than MONDAY, 7th NOVEMBER, 1960.

A. C. SHEPHERD,
Town Clerk.

Carr Bank,
Mansfield.

AYLESBURY
BOROUGH.

APPOINTMENT OF ASSISTANT ARCHITECTS.

Applications are invited from suitably qualified persons for the above APPOINTMENTS in the Consultant Architect's office at a salary within the A.P.T. Grade V (£1,310 to £1,480 per annum).

The Council has embarked on a scheme of town expansion under the Town Development Act 1952 for the acceptance of industry and population from the greater London area entailing a considerable architectural programme including the provision of new Civic buildings, town centre shopping facilities, industrial and housing development.

The appointments will be subject to the Local Government Superannuation Acts and to the National Scheme of Conditions of Service and will be terminable by one month's notice on either side. The successful candidates will be required to pass a medical examination.

Applications giving the names of two referees should be sent to F. B. Pooley, F.R.I.B.A., Consultant Architect to the Borough Council, 1 Church-street, Aylesbury, Bucks, not later than 31st OCTOBER, 1960.

R. D. W. MAXWELL,
Town Clerk.

Town Hall,
Aylesbury.

LIVERPOOL CITY.

ARCHITECTURAL AND HOUSING DEPARTMENT.

Applications are invited for the appointment of BONUS SURVEYORS. Salary, at present £775-£885 p.a. (Miscellaneous VII-VIII).

Applicants should have experience of site measuring for all building trades. Some experience in measuring and operating incentive bonus stages on new building works would be an advantage.

Application forms returnable by 31st OCTOBER, 1960, from the City Architect and Director of Housing, Blackburn Chambers, Dale-street, Liverpool, 2.

The appointments are superannuable, and subject to the Standing Orders of the City Council. Canvassing disqualifies.

THOMAS ALKER,
Town Clerk.

(J.6453.)

EAST RIDING OF YORKSHIRE.
COUNTY COUNCIL.

Applications are invited for the following permanent appointments on the staff of the County Architect.—

DISTRICT BUILDING SURVEYOR (Holderness District). Salary in accordance with N.J.C. Scales, A.P.T. Grade I (£645-£815).

Candidates should possess appropriate qualifications and have had experience in all branches of the building trades. They should be capable of preparing specifications, reports and estimates in connection with maintenance work, minor improvements, etc., and supervising work in progress.

MALE CLERK. Salary in accordance with the General Division Scale (£220-£630) according to age and qualifications.

The candidate appointed will be required to deal with building maintenance accounts and experience in a builder's office or similar post would be an advantage.

Applications giving particulars of qualifications, experience, age, past and present appointments with salaries, together with the names of three referees should be sent to the County Architect, County Hall, Beverley, not later than SATURDAY, 29th OCTOBER, 1960.

Assistance towards removal, lodging and travelling expenses may be granted.

THOMAS STEPHENSON,
Clerk of the Council.

THE SOUTH WALES ELECTRICITY BOARD

ARCHITECTURAL ASSISTANTS

Applications are invited for two Senior Architectural Assistants in the Chief Engineer's Department at Head Office, St. Mellons.

These opportunities will be of particular interest to candidates seeking to widen their experience in an expanding Industry.

Salary within the scale £780/£1,015 per annum with a minimum starting salary of £890 per annum.

Preference will be given to candidates of Intermediate R.I.B.A. standard.

Conditions of service are excellent with generous holiday allowances and possibility of further assistance towards studying. The posts are superannuable and arrangements for the transfer of present superannuation rights are possible for those joining from Public Utilities, Local Authorities, etc.

Please send full details regarding your age, present position, present salary, qualifications and experience to the undersigned at St. Mellons, Cardiff, so as to arrive not later than 5th November, 1960, quoting reference 137/60/B, endorsing envelope "Architectural Assistants".

R. G. WILLIAMS, *Secretary.*

WORCESTER CITY.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for this appointment within Salary Scale A.P.T. I (£645-£815 per annum). The appointment is superannuable and subject to a medical examination.

Housing accommodation will be offered if necessary, and the Corporation are prepared to make a contribution towards removal expenses.

Casual User's Car Allowance will be applicable.

Applications, stating age, present and previous appointments and experience, together with the names of two referees, are to be sent to the City Engineer and Surveyor, 22 Bridge-street, Worcester, by TUESDAY, 1st NOVEMBER, 1960.

BERTRAM WEBSTER,
Town Clerk.

Guildhall,
Worcester.

PRESTON
COUNTY BOROUGH.

APPOINTMENT OF ASSISTANT ARCHITECT.

(Salary A.P.T. IV—£1,140-£1,310.)

Applications are invited for the above mentioned APPOINTMENT in the Borough Surveyor's Department. Candidates must be Registered Architects and Corporate Members of the R.I.B.A.

The programme of works is large and varied and the appointment affords opportunities for good experience, particularly in educational buildings.

The National Scheme of Conditions of Service and Local Superannuation Acts apply, and the successful applicant will be required to pass a medical examination.

Forms of Application can be obtained from the undersigned, to whom they must be returned, completed, not later than TUESDAY, 8th NOVEMBER.

W. E. E. LOCKLEY,
Town Clerk.

Municipal Building,
Preston.

LEWISHAM
METROPOLITAN BOROUGH.

CLERK OF WORKS on temporary staff, with experience of building contracts. Salary £855-£1,000 p.a. (age 26 and over).

Write giving full particulars of age, experience, etc., to Borough Architect, Lewisham Town Hall, Catford, S.E.6.

SOUTHWARK
METROPOLITAN BOROUGH.

Applications are invited for the following appointments in the Borough Engineer and Surveyor's Department:

(a) QUANTITY SURVEYING ASSISTANT: A.P.T. V (commencing £1,355 to £1,525).

Candidates must be well qualified and thoroughly experienced, capable of taking off quantities for large housing schemes including multi-storey blocks of flats and of handling final accounts and special subsidy calculations. Unestablished post.

(b) QUANTITY SURVEYING ASSISTANT: A.P.T. IV (£1,185 to £1,355).

Candidates must be qualified and experienced for duties including taking off for housing schemes with multi-storey flats, preparing bills of quantities, specifications and estimates. Unestablished post.

(c) QUANTITY SURVEYING ASSISTANT: A.P.T. II (£855 to £1,000, less £15 if under 26 years of age).

Candidates must be qualified to Intermediate level and experienced in assisting with taking off, abstracting and building, and the supervision of contract works in progress. Established Post.

Council's Conditions of Service of Officers and Superannuation Scheme apply. Medical examination. No housing. Canvassing will disqualify. Further particulars from the undersigned. Closing date first post on 4th NOVEMBER, 1960.

E. J. PITT,
Town Clerk.

Southwark Town Hall,
(Near Elephant and Castle
Underground Station),
Walworth-road, S.E.17.

MARLEY MULTIPLE GARAGES
IN PRECAST CONCRETE

Of spacious dimensions and good appearance. This fire-proof and rot-proof garage is available in four types—high front, high back, back-to-back and stepped with Marley up-and-over or traditional timber doors. Low initial cost. Virtually maintenance free. *Marley will supply and deliver only or supply and erect. Installed for hundreds of Local Authorities.* Site work can also be undertaken, if required. We shall be pleased to submit quotations on request. Marley make the best garages.

MARLEY CONCRETE LIMITED, Dept. M1/2, Peasmarsh, Guildford, Surrey (Head Office) Guildford 69171. Shurdington, Nr. Cheltenham, Glos Shurdington 334/5. Hatchpond Road, Waterloo, Poole, Dorset. Broadstone 911/2. London Showrooms: 251 Tottenham Court Road, W.1.

SURREY COUNTY COUNCIL

Applications invited for following appointments:—

GRADE SPECIAL—IV.

(£840—£1,310 p.a. plus £40/45 p.a. London Allowance)

ARCHITECTS

Must be A.R.I.B.A. and have had experience in preparation of drawings and specifications, and be capable of assuming responsibility for medium to large scale contracts.

QUANTITY SURVEYORS

Must be A.R.I.C.S. and have had experience of estimating, taking off, valuing works in progress and final accounts for large public buildings, including all specialist works.

HEATING & VENTILATING ENGINEERS

Must be A.M.I.H.V.E. and have had experience in design of large heating, ventilating, hot water supply and gas service installations. The successful applicant must be capable of taking charge of works from commencement to final completion.

ELECTRICAL ENGINEERS

Must be A.M.I.E.E. and have had experience in design of large electrical services installations. The successful applicant must be capable of taking charge of works from commencement to final completion.

STRUCTURAL ENGINEERS

Must be qualified Structural or Civil Engineer and have had experience in design and detailing of steelwork and/or reinforced concrete for medium to large scale contracts.

Approved removal expenses will be paid to successful candidates in this Grade.

GRADE II. (£815—£960 p.a. plus up to £40 p.a. London Allowance)

ARCHITECTURAL ASSISTANTS

Must be of good general training, preference given those who have passed Inter R.I.B.A.

QUANTITY SURVEYING ASSISTANT

Preference given those who have passed Inter R.I.C.S.

MECHANICAL ENGINEERING ASSISTANT

Must hold H.N.C. or be Grad. I.H.V.E. and be experienced in layout and design of heating and h.w. services in buildings.

ELECTRICAL ENGINEERING ASSISTANT

Must hold H.N.C. or have passed Sect. A. of I.E.E. and be experienced in layout and design of electrical installations in buildings.

Candidates will be appointed at the appropriate point within the scale according to age and ability.

Full details, present salary and three copy testimonials to County Architect, County Hall, Kingston as soon as possible.

SOUTH WEST METROPOLITAN
REGIONAL HOSPITAL BOARD.

TEMPORARY CLERK OF WORKS.

Applications are invited for the above appointment to supervise certain works at the Metropolitan Convalescent Home, Walton-on-Thames, consisting of conversion of the existing premises into a geriatric hospital and the erection of new staff accommodation. Total value of works expected to be about £150,000.

Salary: Within the scale £800-£1,050. The starting salary will depend upon ability and experience.

Candidates must have trained as craftsmen with a thorough knowledge of all branches of the building trade and experience in the erection of large buildings including Mechanical and Electrical Services and the keeping of records (experience in hospital building an advantage).

Applications, stating age, present appointment and salary, qualifications and experience, and giving the names and addresses of two Architects to whom reference can be made, should be sent to the undersigned at 40 Eastbourne-terrace, London, W.2, not later than 31st OCTOBER.

E. G. BRAITHWAITE,
Secretary.

ROTHERHAM
COUNTY BOROUGH.

APPOINTMENT OF BUILDING WORKS MANAGER.

Applications are invited for this post at a salary in accordance with Grade D of the National Scales (£1,520-£1,755 p.a.). The commencing salary will be fixed in accordance with the circumstances. Housing accommodation will be provided temporarily if necessary. Further particulars may be obtained on application to the undersigned.

JOHN S. WALL,
Town Clerk.

Municipal Offices,
Rotherham.

HEREFORD CITY.

Applications are invited for the following permanent and pensionable appointment in the Department of the City Architect:—

ASSISTANT QUANTITY SURVEYOR, Grade A.P.T. II, £815-£960.

Applicants should have experience of local authority housing work including site measuring, interim valuation and final accounts. Preference would be given to those experienced in taking off and preparation of bill of quantities. Housing accommodation may be provided if required. Canvassing disqualifies.

Forms of application may be obtained from the City Architect, Town Hall, Hereford, and should be returned to him not later than 12 NOON on MONDAY, the 7th day of NOVEMBER, 1960.

J. A. WESTON,
Town Clerk.

Town Hall,
Hereford.

BEDFORDSHIRE
COUNTY COUNCIL

invite applications from suitably qualified persons for appointment as DEPUTY COUNTY PLANNING OFFICER. Salary within scale £2,000-£2,250. Application forms and further particulars from the Establishment Officer, Shire Hall, Bedford. Closing date—1st NOVEMBER, 1960.

LONDON
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Chartered QUANTITY SURVEYORS required to fill Grade III positions in Quantities Division, Bills of Quantities Section. Two years' experience on Working-Up plus some experience of junior Taking-Off essential.

Salaries within range of £950-£1,250 according to experience. Form and particulars from Hubert Bennett, F.R.I.B.A., Architect to the Council (EK/B/2616/10), County Hall, S.E.1.

DERBY
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

(a) SENIOR ASSISTANT ARCHITECT, A.P.T. Grade IV (£1,140-£1,310 per annum). Qualifications: A.R.I.B.A.

(b) SENIOR ASSISTANT ARCHITECT, Special Grade (£840-£1,145 per annum). Qualifications: A.R.I.B.A.

(c) JUNIOR ARCHITECT, General Division (£220-£630 per annum). Qualifications: Probationer R.I.B.A.

(d) ASSISTANT ARCHITECT, A.P.T. Grade I (£645-£815 per annum). Qualifications: Intermediate R.I.B.A.

(e) SENIOR QUANTITY SURVEYOR, A.P.T. Grade IV (£1,140-£1,310 per annum). Qualifications: A.R.I.C.S. (Quantities) with appropriate experience.

(f) SENIOR QUANTITY SURVEYOR, A.P.T. Grade III-IV (£960-£1,310 per annum). Qualifications: A.R.I.C.S. (Quantities) with appropriate experience.

(g) JUNIOR QUANTITY SURVEYOR, General Division (£220-£630 per annum). Qualifications: Student Member R.I.C.S. with previous experience in Quantity Surveyor's Office.

(h) ASSISTANT QUANTITY SURVEYOR, A.P.T. Grade I (£645-£815 per annum). Qualifications: Intermediate R.I.C.S. with good experience in working up Bills of Quantities and Final Accounts, measuring on site and taking off for small works.

(i) JUNIOR HEATING ASSISTANT, General Division (£220-£630 per annum), or A.P.T. Grade I (£645-£815 per annum) according to qualifications.

Commencing salary according to qualifications and experience. Permanent superannuable appointments, subject to one month's notice and to medical examination.

National Conditions of Service.

Forms of application obtainable from and to be returned to the Borough Architect, The Council House, Corporation-street, Derby, not later than THURSDAY, 10th NOVEMBER, 1960.

N. S. FISHER,
Town Clerk.

14th October, 1960.

STAFFORDSHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT

Applications are invited from suitably qualified candidates for the following posts:—

STRUCTURAL ENGINEERING SECTION.

(a) SENIOR ASSISTANT ENGINEER. Grade Special/IV, commencing within the Special Grade (£840-£1,145 per annum), according to qualifications and experience. Applicants should be Chartered Structural or Civil Engineers with good experience in the design of structures in steelwork, reinforced concrete, and structural timber. Experience in the design of r.c. building frames an advantage.

(b) STRUCTURAL DRAUGHTSMAN. Salary scale A.P.T. II (£815-£960 p.a.) Applicants should have good general knowledge of Structural Engineering and be neat and expeditious Draughtsmen. Duties include preparation of detail drawings in steelwork, reinforced concrete, and structural timber. Minimum qualifications required are graduateship of the Institution of Structural Engineers, or Higher National certificate.

The appointments will be subject to:—
(a) The National Scheme of Conditions of Service.
(b) The Local Government Superannuation Acts and the passing of a medical examination.

The County Council are prepared to grant a lodging allowance of 35s. per week to married applicants maintaining a home outside the geographical County for a period of six months, also second-class rail travel home every second month during the initial six months. The Council are also prepared to give consideration to the granting of financial assistance in appropriate cases towards removal expenses.

The Council has a scheme for loans to employees wishing to purchase their own houses.

Forms of application, which must be returned by the 30th NOVEMBER, 1960, may be obtained from P. Woodcock, F.R.I.B.A., County Architect, Green Hall, Lichfield-road, Stafford.

T. H. EVANS,
Clerk of the County Council.

BLACKBURN
COUNTY BOROUGH.

APPOINTMENT OF ASSISTANT BUILDING INSPECTOR.

Applications are invited for the above post, at a salary in accordance with Grade A.P.T. I/II (£645-£960 p.a.), commencing according to qualifications and experience.

Candidates should hold the Building Inspector's Certificate of the Institution of Municipal Engineers, or equivalent qualifications approved by the Local Government Examinations Board and the National Joint Council.

Preference will be given to applicants with experience of Building Byelaw control and Means of Escape Surveys with a Local Authority.

Application forms (from the Borough Engineer, Town Hall, Blackburn) are to be returned by SATURDAY, 5th NOVEMBER, 1960.

FRANK SQUIRES,
Town Clerk.

SWINDON
EDUCATION COMMITTEE.

Applications are invited for appointment as TECHNICAL ASSISTANT (Buildings and Sites) in the Education Department. Salary A.P.T. Grade II (£815 to £960 p.a.). Candidates should possess suitable technical qualifications with practical experience in the building trades. Administrative experience a recommendation.

Consideration may be given to an allocation of housing accommodation.

Further particulars and application forms, which must be returned by 4th NOVEMBER, 1960, may be obtained from the Borough Education Officer, Civic Offices, Swindon, Wiltshire.

THE ARCHITECTURAL ASSOCIATION
SCHOOL OF ARCHITECTURE.

APPOINTMENT OF FIFTH-YEAR MASTER.

The Council of the Association offers an appointment for the FIFTH-YEAR MASTER at the Architectural Association School of Architecture.

The appointment is full time for four days a week during the academic year.

The salary is £1,250 per annum.

Full details of the appointment may be had on application to the Secretary, Architectural Association, 36 Bedford-square, London, W.C.1.

DUNDEE
CORPORATION.

Applications are invited for the appointment of BONUS SURVEYOR/ESTIMATOR in the Direct Labour Building Department. Salary scale £855-£915.

Candidates should be experienced in the preparation of labour targets for all trades, the compilation of cost analyses and measuring up and scheduling of materials

The post is superannuable and the successful applicant will require to pass a medical examination.

Applications stating age, experience, qualifications, present employment and salary with the names of two referees should be lodged with the Town Clerk, City Chambers, Dundee, not later than 28th OCTOBER, 1960.

LONDON
CORPORATION.

CITY SURVEYOR'S OFFICE.

Applications invited for permanent staff appointments:

ARCHITECTURAL AND BUILDING DIVISION.

SENIOR ASSISTANT ARCHITECT: candidates must have passed final R.I.B.A. and be capable of preparing sketch schemes for the design of a wide variety of buildings. Salary up to £1,480.

ARCHITECTURAL ASSISTANT: candidates should either be studying for or have passed Inter R.I.B.A., possess a sound knowledge of building construction and ability to prepare detailed and ¼ in. scale drawings. Salary up to £1,095.

Applications, with relevant particulars, including names and addresses of two referees, to The City Surveyor, Guildhall, London, E.C.2, within 14 days.

AIR MINISTRY

require SENIOR TAKERS-OFF in the Quantities Division, London. Must have wide experience of all classes of work and preferably be A.R.I.C.S. (Sub-Division III Quantities). Salary scale £1,375 to £1,785. Commencing salary A.O.E. Non-pensionable but long term. Good prospects of establishment and/or promotion. Five-day week, 22 days' paid leave. Applicants must be natural born British subjects. Forms from Ministry of Labour, Technical and Scientific Register (K), 26, King-street, London, SW1. Quoting J.340/OA.

WILLESDEN
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

CLERK OF WORKS. Applications are invited for the Temporary Appointment of CLERK OF WORKS in the Building Works Section. Salary within Grade A.P.T. III (£935-£1,140) plus London Weighting maximum £45 p.a.

Applicants should have a sound knowledge and wide experience in building works, particularly in the maintenance adaptation and conversion of houses.

The Council are unable to assist with housing accommodation.

Details and form of application obtainable from the Borough Engineer, Town Hall, Dyne-road, N.W.6. JWC/LZW. 14.10.60.

EALING
BOROUGH.

DRAUGHTSMAN for Civil Engineering Work, Miscellaneous Grade V, £725-£800, inclusive.

Full particulars and application form obtainable from the Borough Surveyor, Town Hall, Ealing, W.5.

Closing date 31st OCTOBER, 1960.

E. J. COPE-BROWN,
Town Clerk.

LANCASHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited from qualified ARCHITECTS of initiative, keen on design and modern constructional methods, to work on a large and varied programme.

Permanent staff appointments within the salary range £1,310-£1,480 (A.P.T.V.) starting point according to experience.

Application forms and details of appointment from the County Architect, P.O. Box 26, County Hall, Preston, returnable by 4th NOVEMBER, 1960, quoting reference A/B.

HORNSEY
BOROUGH.

ASSISTANT BUILDING SUPERINTENDENT.

Applications are invited for the post of ASSISTANT BUILDING SUPERINTENDENT, Grade A.P.T. II, £855 to £1,000 (commencing salary according to experience). Permanent post subject to medical examination. No housing. Previous experience as general foreman, trade foreman or Clerk of Works is necessary.

Form of application which is to be returned by MONDAY, 7th NOVEMBER, 1960, can be obtained from the Borough Engineer and Surveyor, Town Hall, N.8.

W. B. MURGATROYD,
Town Clerk.

WARWICKSHIRE
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.
APPOINTMENT OF CLERKS OF WORKS.

Applications are invited for the appointment of CLERKS OF WORKS to supervise the erection of new County Buildings in various parts of the County. The appointments will be on the temporary staff on Grade Y (£820 x £25—£895). The commencing salary will depend upon ability and experience.

Applications are to be on forms which can be obtained from E. Davies, F.R.I.B.A., A.M.T.P.I., County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS,
Clerk of the Council.

Shire Hall,
Warwick.
October, 1960.

ARCHITECTS

UNIVERSITY GRANTS COMMITTEE.

University Grants Committee require unestablished ARCHITECTS to work as members of small team engaged on design of university hall of residence. Applicants must be registered Architects, previous office experience desirable but not essential. Salary range: £830-£1,300 (London) p.a. Forms from Ministry of Labour, Technical and Scientific Register (K), 26 King-street, London, S.W.1. Quoting J.309/OA.

GLAMORGAN
COUNTY COUNCIL

require applications from Qualified Persons with considerable experience in the particular technical field for the following permanent appointments in the County Architect's Department :—

(a) ASSISTANT ARCHITECTS (£1,140-£1,310).

(b) SENIOR ASSISTANT QUANTITY SURVEYOR (£1,310-£1,480).

The commencing salary may be above the minimum of the grade and a temporary lodging allowance will be paid in certain circumstances.

Applications, giving details of age, training, qualifications and experience, together with the names of two referees, to the County Architect, County Hall, Cardiff, by 4th NOVEMBER, 1960.

RICHARD JOHN,
Clerk of the County Council.

BOLTON
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the post of QUANTITY SURVEYOR within appropriate A.P.T. Grade. Commencing salary, according to experience, will be within the range of £645-£1,145 per annum.

Applicants should have experience in Taking-Off quantities for architectural works, and measuring for interim and final accounts. Post superannuable, subject to medical examination. Previous local government experience not essential.

Applications, giving full details, including experience, present post and salary, and naming two referees, should be received by me not later than 31st OCTOBER.

PHILIP S. RENNISON,
Town Clerk.

BARNET
GROUP HOSPITAL MANAGEMENT COMMITTEE.

BARNET, HERTS.

WORKS ASSISTANT required in the Superintendent of Works' Department, with experience in the preparation of drawings and specifications, and the supervision and reporting of building works.

Salary scale (from 26 years) £620 x £25 (4)-£720 per annum (including London Weighting). Applications stating age, technical qualifications, practical experience and giving the names of two referees to be sent to the Group Secretary, 1 Wellhouse-lane, Barnet, Herts, by 1st NOVEMBER

LEICESTER CITY.

EDUCATION COMMITTEE.

Applications are invited for the post of TEMPORARY CLERK OF WORKS to supervise large extensions at the Colleges of Art and Technology, The Newarke, Leicester.

Candidates should be experienced in the supervision of large building contracts.

Salary Grade A.P.T. II (£815 x £30—£960 per annum).

Applications and testimonials should be sent to the undersigned not later than THURSDAY, 27th OCTOBER, 1960.

J. H. LLOYD OWEN,
City Architect.

10 Loseby-lane,
Leicester.

PLYMOUTH CITY.

Applications are invited for :—

TEMPORARY SENIOR CLERKS OF WORKS at a salary scale similar to A.P.T. I (£645-£815), starting at a point according to experience.

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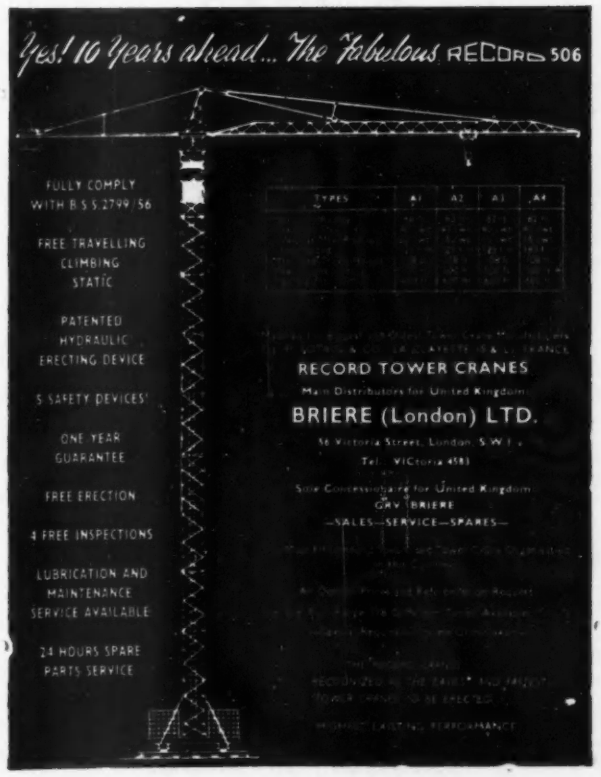

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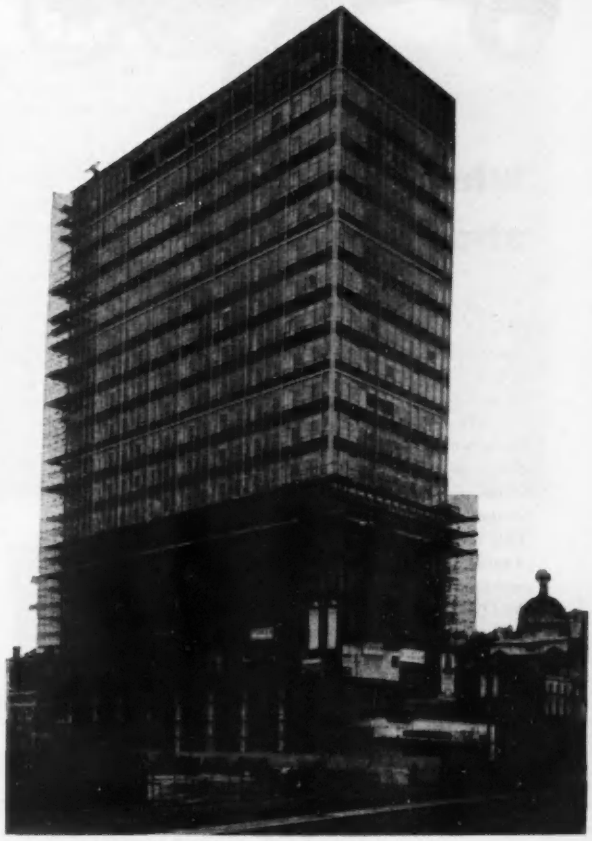

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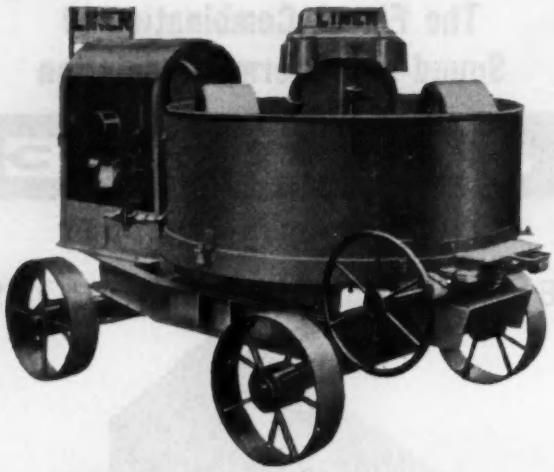

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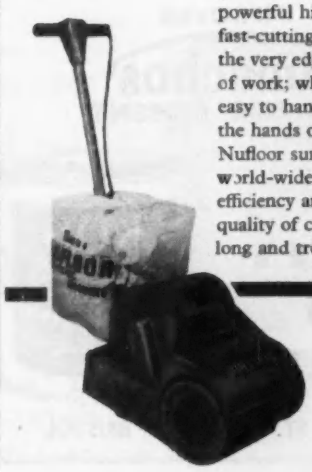

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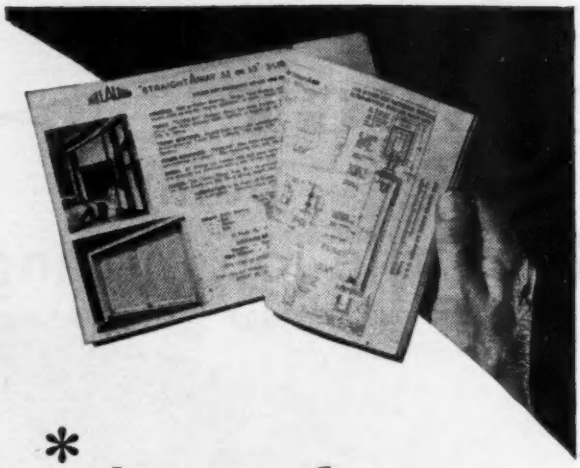

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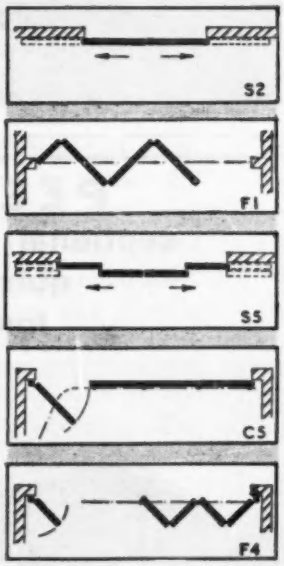

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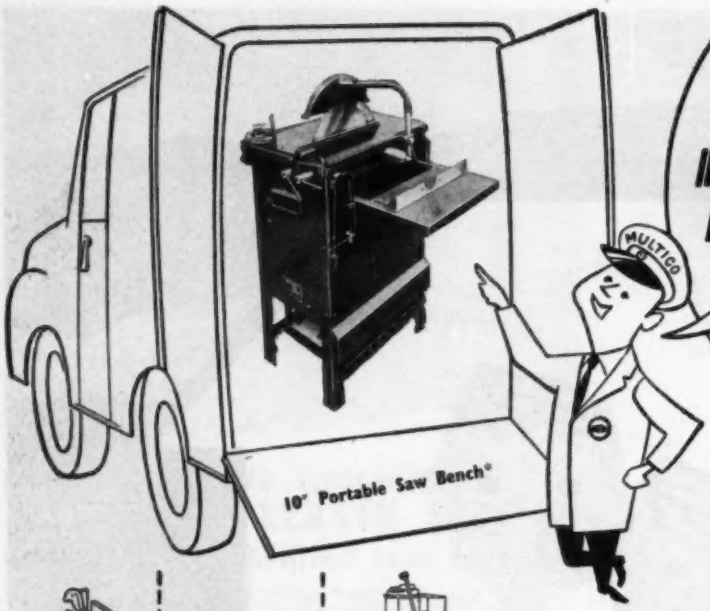

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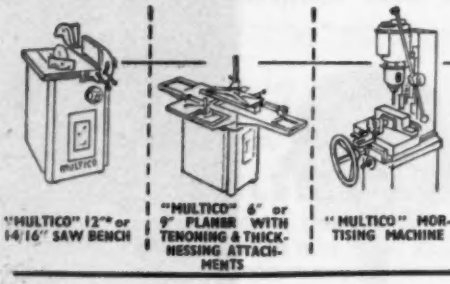

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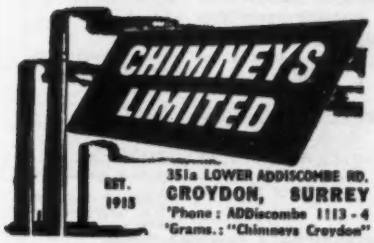

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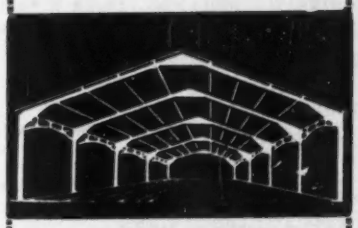

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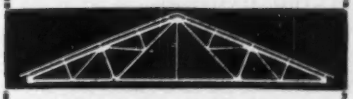

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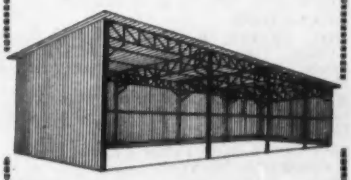

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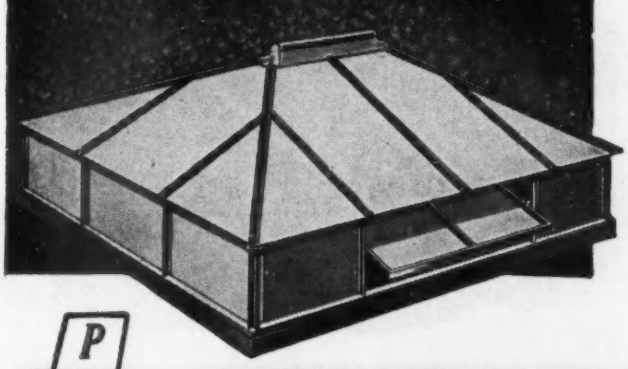

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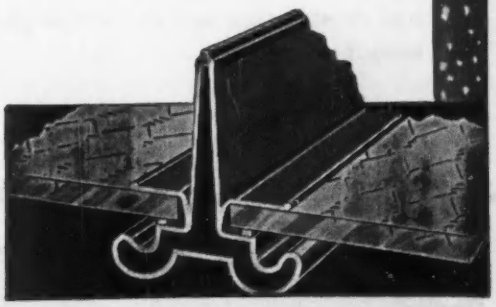

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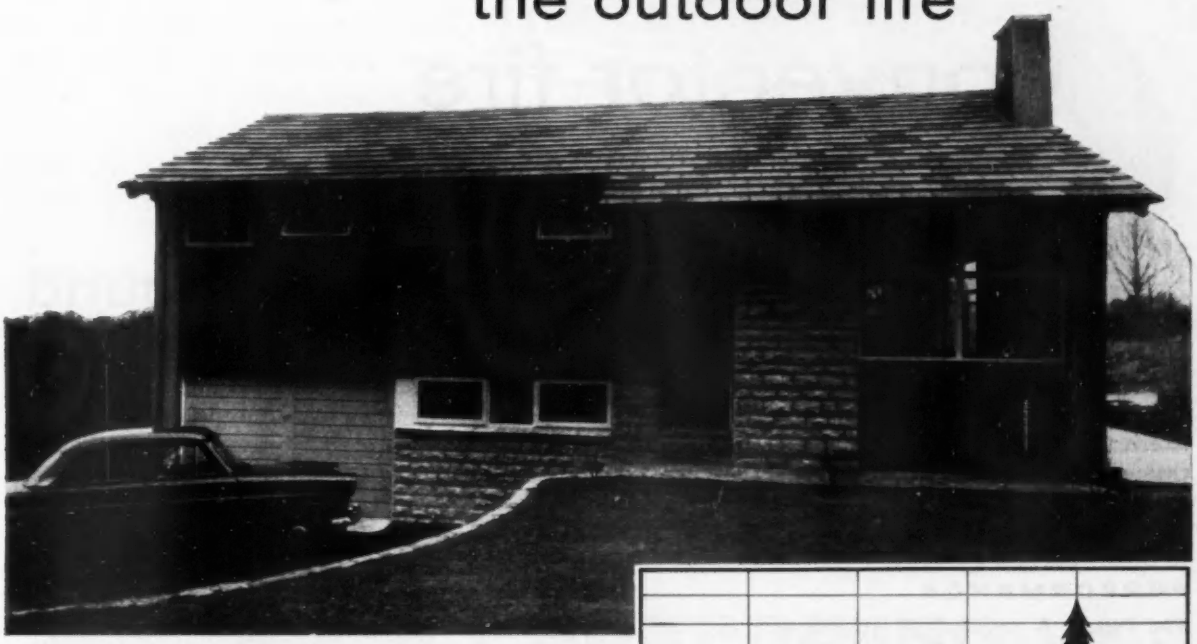

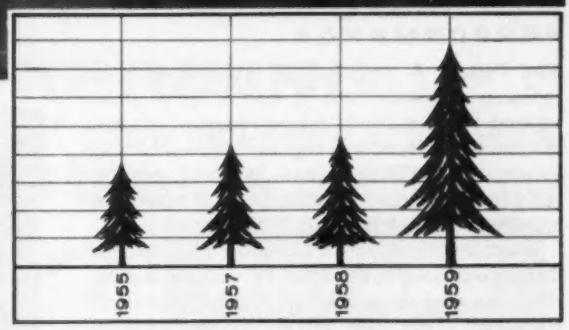

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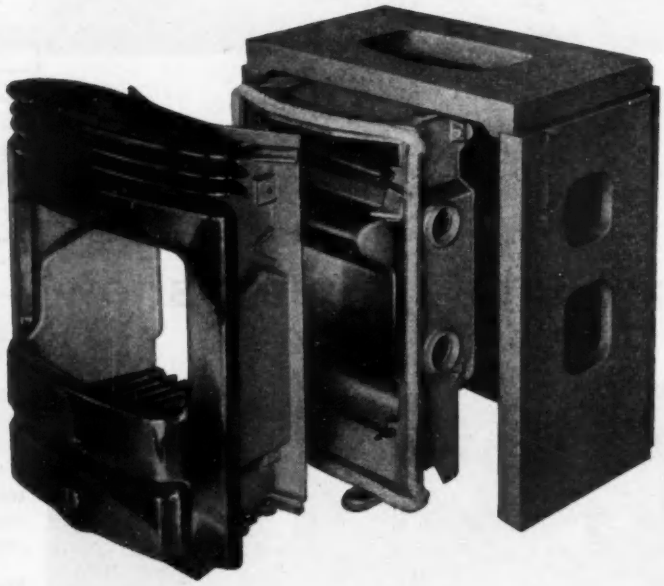

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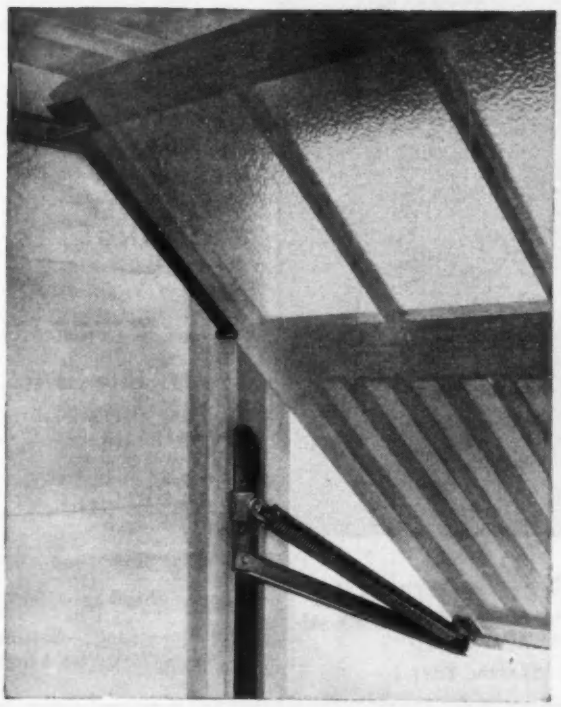

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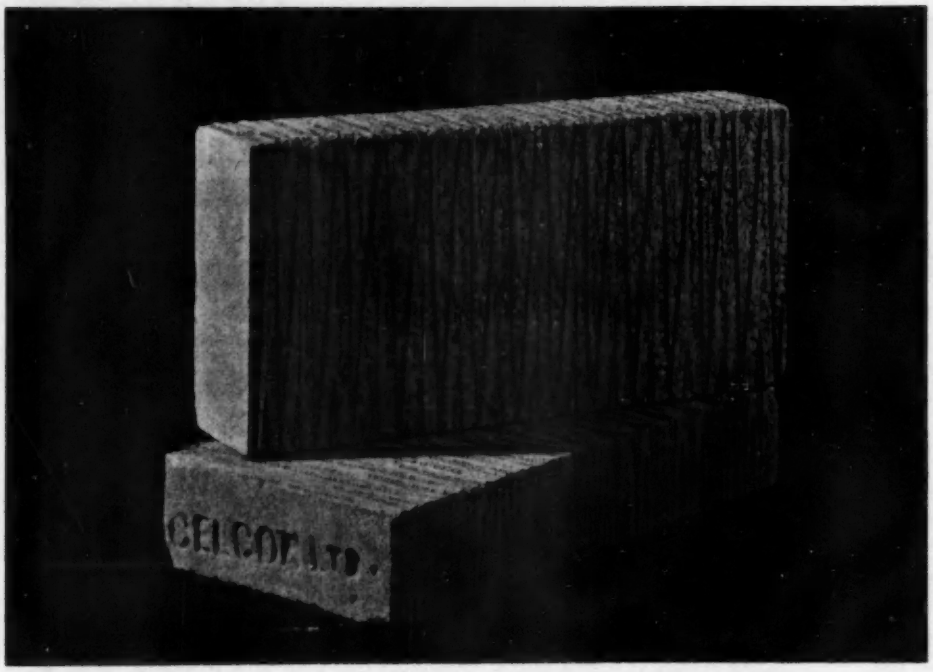

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Excellent opportunities for Senior Draughtsmen/Project Managers with experience of joinery and/or general furniture construction exist in rapidly expanding subsidiary Company of National Group. Permanent, pensionable posts with free Life Insurance offering rewarding and interesting work to keen and ambitious men (or women). London area. Preferred age 25–45. Details of age, experience, present salary, to:

Box No. 1768, "The Builder."

ASSISTANT Male, for Premises Department, must be willing to travel in the provinces and be able to prepare schemes, specifications, carry out surveys and be a good draughtsman. Knowledge of Shopfront design an advantage. Good commencing salary with Pension Plan. Please write giving fullest particulars of age, experience, etc. to **Personnel Manager, The National Cash Register Co. Ltd., 206-216 Marylebone Road, London, N.W.1.**

QUANTITY SURVEYORS

ASSISTANT SURVEYOR, Intermediate R.I.C.S., Standard Required by Chartered Quantity Surveyors, Oxford, for Taking-off, Account Settlement. Salary £600-£700, according to experience.—Box 1988, "The Builder."

ASSISTANT and Junior QUANTITY SURVEYORS Required for North Wales area. Permanent progressive appointments.—Full details of experience, age and salary required, to Box 2005, "The Builder."

CIVIL ENGINEERING
DESIGN ASSISTANTS AND DRAUGHTSMEN

One of Britain's largest Steel Works has vacancies in its Development Section for Civil Engineering Design Assistants and Draughtsmen.

Candidates must have had basic experience in Civil and Structural Steel Design. An opportunity exists for those studying H.N.C. or Institution examinations to gain wide experience in the design of Heavy Industrial Structures including Foundations.

Salary would be based on experience, age and qualifications.

Please write:

Box No. 2011, 'The Builder'

A. MONK AND COMPANY LIMITED

Require the services of

QUANTITY SURVEYORS AND ASSISTANTS

for major civil engineering contracts in the South West Midlands. Salary according to age, experience and qualifications. Please reply stating age, previous experience and salary required to the Chief Surveyor at the Company's Head Office at Padgate, Warrington, Lancs. Replies will be treated in confidence.

QUANTITY SURVEYORS' WORKERS-UP

for

JOHN LAING AND SON LIMITED

Workers-up required for work on major Final Accounts on contract sites in Bedfordshire and Gloucestershire with prospect of continuity and advancement for those who require it. Rapid and accurate work essential on squaring, abstracting, reducing and billing, together with the ability to follow dimensions.

These posts offer the opportunity to work in various parts of England with Lodging Allowance and assistance in finding comfortable accommodation and to avoid the stereotyped procedure of, and often arduous travel to a permanent office.

One post is also open at Mill Hill to a worker-up or Q.S. clerk, male or female, to operate a simple electric calculating machine and to organise the collection and despatch, with due regard to priorities, of dimensions, abstracts and bills from sites throughout the Country.

The Company operates a Pension Scheme and other progressive benefits. Apply in writing to:

The Personnel Manager (QSB),
John Laing and Son Limited,
London, N.W.7.

QUALIFIED JUNIOR ASSISTANT Required by Westminster Quantity Surveyors having a varied practice. Five-day week. Paid overtime. Congenial office.—Reply to Box 934, "The Builder."

W. J. SIMS SONS & COOKE, Ltd. Require Senior QUANTITY SURVEYOR for work in the London area.—Apply in writing, stating details of age, experience, qualifications and salary required, to Sherwood House, Beddington-lane, Croydon.

ASSISTANT intermediate standard Required by Chartered Quantity Surveyor, for taking-off and settling accounts, etc.—Write, with details, to K. H. BOLE, 22 Little Russell-street, W.C.1.

ENERGETIC YOUNG SURVEYOR (A.R.I.C.S.), keen to acquire responsibility and experience Required as ASSISTANT to small expanding firm of Chartered Quantity Surveyors in Holborn. Car owner preferred. Work will cover all aspects of the Profession according to capability and a good salary will be offered to the right man.—Brief history to date, to Box 1784, "The Builder."

MANCHESTER. Professional firm Require a Junior QUANTITY SURVEYOR for site office on large, progressive industrial contract. Must be experienced in working-up. Salary of approximately £700 for good man.—Box 1942, "The Builder."

ASSISTANT QUANTITY SURVEYOR Required by S.W.16 London Building Contractors to measure Sub-Contractor's Accounts, Site Measurements, Bonus Surveying. State age, experience. Salary by arrangement.—Box 1946, "The Builder."

ROBERT M. DOUGLAS (Contractors) Ltd.

require

QUANTITY SURVEYORS

for Civil Engineering and Building Works in any part of Great Britain.

Candidates must have had experience in interim and final valuations and be competent to negotiate at high level on Final Accounts upwards of £100,000. Pension scheme and excellent prospects for men of initiative and drive.

Remuneration by arrangement.

Write, stating age, qualifications, and experience to:

Robert M. Douglas (Contractors) Ltd.,
395 George Road,
Erdington, Birmingham 23.

ASSISTANT QUANTITY SURVEYOR

RICHARD COSTAIN LIMITED

have a vacancy for a Quantity Surveyor with at least 3 years experience of site measurement and the preparation of certificates. Age approximately 25–27.

The candidate appointed will be required to reside initially in the Welwyn area and will take charge of surveying duties on two contracts. Willingness to accept this type of responsibility is essential. Attractive salary with subsistence allowance if living away from permanent home.

Please write to:—

Personnel Officer,
111, Westminster Bridge Road,
London, S.E.1.

CHARTERED QUANTITY SURVEYORS urgently Require SENIOR ASSISTANT, preferably A.R.I.C.S. or A.I.Q.S., experienced in taking-off and working under own initiative. Ample opportunity to gain experience in all other sections of the Profession. Salary scheme.—Apply, in writing, stating age, qualifications and experience, to HOLMES and WALKER, 16 Blenheim-terrace, Leeds, 2.

EXPERIENCED QUANTITY SURVEYOR Required for building contracts in South Wales, capable of handling Interim and Final Accounts for jobs up to £250,000 with minimum of supervision. Superannuation and profit sharing scheme in operation.—Apply, marked confidential, giving full details of experience and salary required, to Manager, STAVERTON CONTRACTORS (WALES), Ltd., Cardiff.

CONTRACTORS' SENIOR QUANTITY SURVEYOR Required.—Application in writing (marked "Private") with details of experience, to: Technical Manager, JOHN KNOX (BRISTOL), Ltd., Winterstoke-road, Bristol, 3.

SITE QUANTITY SURVEYOR for long-term contract at Newport, Mon., Required by firm of Chartered Quantity Surveyors. Rented accommodation available.—Apply stating age, experience and salary required, to Box 2056, "The Builder."

TAKER-OFF/MEASURING SURVEYOR Required for large civil engineering contract on South coast near Kent/Sussex border.—Apply stating age, experience and salary required, to Box 2057, "The Builder."

EXPERIENCED MEASURING SURVEYOR Required by Chartered Quantity Surveyors for building and civil engineering contract at Scunthorpe.—Apply stating age, experience and salary required, to Box 2058, "The Builder."

SENIOR ASSISTANTS up to Managerial status Required by expanding Quantity Surveyors in West of England. Details of experience, salary required, etc., to Box 2041, "The Builder."

ASSISTANT Q.S. Required in Chartered office, Cheltenham. A young Surveyor seeking experience in all aspects of the profession is sought.—Age, experience and salary required, to Box 2042, "The Builder."

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EXPERIENCED AND QUALIFIED

QUANTITY SURVEYORS

required for London Office of a major Civil Engineering Contracting organisation

Please write, quoting W.261, to: The Personnel Officer

CEMENTATION COMPANY LTD.,
20 ALBERT EMBANKMENT, LONDON, S.E.11

QUANTITY SURVEYOR

BOURNEMOUTH

RICHARD COSTAIN LIMITED have a vacancy for a Quantity Surveyor with at last 5 years experience, including total responsibility for all surveying duties on contracts of half a million or more. Age preferably 30-35.

This is a permanent and pensionable appointment—the successful candidate being required to reside at Bournemouth for at least the next 2 years. A minimum starting salary of £1,300 per annum will be offered. Please write to:

Personnel Officer,
111, WESTMINSTER BRIDGE ROAD,
London S.E.1.

QUANTITY SURVEYING DEPARTMENT

of

JOHN LAING & SON LIMITED

Quantity Surveyors, including Takers-off, experienced in the preparation of Final Accounts and Variation Accounts in all trades, either for Employers or Contractors, are invited to discuss with the Chief Quantity Surveyor engagements for posts now open and in prospect in London, South Wales, Oxford, Birmingham and elsewhere in Area or major site offices.

These posts offer the opportunity to Contractors' Quantity Surveyors of advancing their specialisation in the profession and to others of widening their experience within one of the largest and most progressive contract organisations in the Country. Excellent prospects, commensurate with those of present staff, are open to men of ability and initiative who are prepared to develop a wide interest in the operations of the Company.

The Company operates a Pension Scheme. Lodging and Car Allowances are available where appropriate, and assistance towards qualification is offered to those wishing to take advantage of it.

A preliminary appointment may be made in writing or by telephone to the **Chief Quantity Surveyor, John Laing and Son Limited, Mill Hill, London, N.W.7,** telephone Mill Hill 3636. For those who prefer, direct approach may be made stating age, qualifications, experience, etc., to the **Personnel Manager (QSP.1)**, at the above address.

QUANTITY SURVEYOR

for large, progressive and expanding company of Building and Civil Engineering Contractors for their Head Office in Birmingham. Initially to be responsible for Local Authority Housing and Multi-storey flat contracts. It is essential that applicants have extensive experience in this type of work.

The position offers permanent progressive employment and attractive salary and Car Purchase Scheme. Institute of Builders or equivalent qualifications are preferred.

Apply in writing only giving brief particulars to:

M. T. Barwick, Director,
C. Bryant & Son Ltd.
Whitmore Road, BIRMINGHAM, 10

IMPERIAL CHEMICAL INDUSTRIES LIMITED
PLASTICS DIVISION
has a vacancy for a

QUANTITY SURVEYOR

at Welwyn Garden City

Applicants should preferably be members of the Institute of Quantity Surveyors or possess an equivalent qualification and some knowledge of building and civil engineering quantities and schedule of rates is desirable. The work will involve site measuring, preparation of accounts for large contracts and some cost planning and estimating.

Good starting salaries will be paid and Pension and Profit Sharing schemes are in operation. For married men temporary lodging allowances are available and assistance is given towards removal expenses.

Apply briefly, quoting reference No. 5053AB, to the Staff Manager,

Imperial Chemical Industries Limited,
Plastics Division,
Bessemer Road, Welwyn Garden City, Herts.

QUANTITY SURVEYOR (age 27/30 and with minimum intermediate R.I.C.S., I.Q.S.). An entirely new appointment is to be made, offering interesting and rather unusual work to a man having experience in the preparation of Bills of Quantities, site measurement, interior valuations, final accounts and estimating. He will work largely on his own initiative.—Please reply, giving full details of age, experience and salary, to the Office Manager, TAYLOR WOODROW (ARVON), Ltd., 41 Welbeck-street, W.1.

QUANTITY SURVEYORS Required. Intermediate and Final Standard. Experienced in taking-off, site measuring, valuation, etc.—Apply, stating age, experience and salary required, to LOWTON CONSTRUCTION CO., Ltd., Pocket Nook-lane, Lowton-St.-Mary's, Nr. Warrington.

ASSISTANT of approximately Inter. standard for small office S.W.1. Progressive position on varied work. State age, experience and salary required.—Box 1900, "The Builder."

QUANTITY SURVEYING ASSISTANT Required by Building Contractors. State experience and salary required.—C. NEAL & SON, Ltd., West Horsley (Leatherhead).

QUANTITY SURVEYORS, preferably aged 25/30. Required for Building Section of well-known company in the Westminster area. The positions are permanent and offer good prospects in an expanding organisation.—Please send full details of age, experience, and salary required, to Box QS 3965, A.K. ADVERTISING, 212a Shaftesbury-avenue, London, W.C.2.

CHARTERED QUANTITY SURVEYORS, with offices in the North-West Require ASSISTANTS of Intermediate and Final R.I.C.S. standard.—State age, experience and salary required, to Box 1876, "The Builder."

MANCHESTER firm of Chartered Quantity Surveyors Require **QUANTITY SURVEYOR** for site measuring, preparing interim valuations and final accounts on all sizes of contracts.—Box 1880, "The Builder."

MANCHESTER firm of Chartered Quantity Surveyors Require ASSISTANT QUANTITY SURVEYOR, able to prepare Bills of Quantities under minimum of supervision. Intermediate standard R.I.C.S.—Box 1879, "The Builder."

CJB

QUANTITY SURVEYORS

required for work in Head Office and contracts in this country. Must be experienced in taking off and measuring for interim valuations, variations and final accounts for building and civil engineering works up to £500,000. Additional experience in oil refinery and electrical work an advantage but not essential.

Permanent positions, contributory pension scheme carrying life assurance benefits.

Applicants should apply in writing stating age, experience, qualifications and salary required to:

The Personnel Manager,
CONSTRUCTORS JOHN BROWN LIMITED,
C.J.B. House, Eastbourne Terrace,
Paddington, London, W.2.

Quoting Ref. No. K7919.

QUANTITY SURVEYOR

A trained Quantity Surveyor required by private enterprise section. Responsibilities include taking off quantities, preparation of materials schedules. Must be able to prepare estimates and valuations for private housing work. Suitable position for the younger man with H.N.C. or I.Q.S. qualifications.

Write fully to the *Personnel Manager,*

WATES LTD.,
1258/60 London Rd.,
Norbury, S.W.16.

PITCHERS LTD.

QUANTITY SURVEYOR

required for measuring variations, interim certificates, and preparing final accounts. Applicants should be keen young men who are anxious to progress and be capable of working with the minimum of supervision.

ASSISTANT ESTIMATOR capable of pricing Bills of Quantities under supervision for building contracts up to £50,000.

Replies, stating age, brief particulars of experience and salary required, should be addressed to the :

Secretary,
PITCHERS LTD.,
57 Ashburton Grove,
Holloway, N.7

SURVEYORS

MEASURING SURVEYOR Required by London firm of Quantity Surveyors. Permanent position with good initial salary and prospects. Luncheon vouchers. Two weeks' annual holiday rising to three weeks after three years' service with the firm.—Apply stating qualifications and experience to Box 935, "The Builder."

BONUS SURVEYOR Required for contracts in the Greater London area. Tradesmen will be considered for this position. Experience in Taking-off Quantities, Preplanning and Measuring essential. Good salary, travelling expenses, pension scheme. —Write, giving details, to GILBERT-ASH Ltd., Stanhope Gate, W.1. Ref. RD/CBH.

SURVEYOR/TAKER-OFF Required for Brentford office. Able to prepare B. of Q. from drawings for internal use only. Good building background and knowledge of SMM essential. Age immaterial. Salary £600-£800 in first instance.—Box 1845, "The Builder."

ENTERPRISING and ambitious Senior SITE SURVEYOR Required in Chartered Quantity Surveyors' office, to take charge of important and interesting projects. Three weeks' annual holiday and luncheon vouchers. Pension scheme in operation in the office. A salary commensurate with experience will be paid to successful applicant.—Apply, stating age, qualifications and salary required, Box 1851, "The Builder."

PROGRESSIVE BUILDERS Require PLANNING ASSISTANT. This is a new appointment and offers excellent prospects to a keen young Surveyor or Engineer. Experience in Planning and Scheduling of materials an advantage. Pension scheme.—Full details of qualifications, experience, age and salary required, to POCHINS (MANCHESTER), Ltd., Middlewich, Cheshire.

SENIOR SURVEYOR. A situation exists in a well-known old-established Builder's office for an experienced SENIOR SURVEYOR to check and agree Final Accounts. Applicants must have had considerable experience of this nature and should be over 45 years of age.—Write giving full particulars of experience, salary and availability, to The Secretary, C. MISKIN & SONS, Ltd., Romeland House, St. Albans.

PLUMBING SURVEYOR/ESTIMATOR Required for London branch office. Must be fully conversant with measuring, interim valuations, etc., and dealing with final account.—Write, in confidence, stating age, qualifications, experience and salary required, to The Secretary, DAVID F. WISEMAN & SONS, Ltd., 145 Conybere-street, Birmingham, 12.

SURVEYOR Required by established firm to supervise small works and assist in estimating, taking-off, site measuring, interim certificates and final accounts. —Write, stating experience, age and salary required, to E. HOLBROOK & SON (CROYDON) Ltd., 72 Lower Addiscombe-road, Croydon.

BUILDERS SURVEYORS

required for site measuring and operation of site control for large housing and flat contracts at Merthyr Tydfil, Cwmbran and Newport. Only experienced Surveyors should apply for this job which should lead to advancement in the Company's Surveying Department.

If you are a young, energetic and ambitious man able to earn an attractive salary then this appointment should be of interest to you.

Applicants with Institute of Builders, or Higher National Certificate qualifications would be preferred.

Apply in writing in the first instance giving brief particulars to:

M. T. Barwick, Director,
C. Bryant & Son Ltd.,
Whitmore Road, BIRMINGHAM, 10

SURVEYOR

Experienced Surveyor required for progressive position in Small Works Department of well-known firm of Contractors with Head Office in the Westminster area. Applicants should have thorough knowledge and experience of all types of high-grade jobbing work.

Write, please, giving full particulars to
Box No. 2079, "The Builder"

GABLE CONSTRUCTION Co. Ltd.
require
JUNIOR MEASURING SURVEYOR
Permanent Position.
Good Prospects.
Write, stating age, experience, salary required etc. to :—
54 Garratt Lane, S.W.18.

BUILDERS SURVEYOR

Urgently required in S.E. Essex for site measuring valuations and final accounts. Write giving full details of previous experience, salary required to:—

A. & C. Barvis Ltd.,
Manor Works, Church Road,
Thundersley, Essex.

CUBITTS

HOLLAND & HANNEN AND CUBITTS (GREAT BRITAIN) LTD.,
invite applications from
COST and BONUS SURVEYORS

experienced in measuring completed site works, and assessment of targets. Permanent and pensionable positions with good prospects. Apply in confidence stating age, experience in detail, and salary required to:—

Personnel Manager (B/K8824),
1, Queen Anne's Gate,
London, S.W.1.

EXPERIENCED SENIOR ESTIMATING SURVEYOR

required for Executive position in General Contracting Company operating in London and Southern England. The position will require the successful applicant to take charge of one section of the Surveying Department carrying out General Estimating and Surveying duties. The position will be progressive, offering excellent opportunities of promotion to Company level to young men displaying the right qualities. Good salary, car and working conditions are offered. Write in confidence, outlining experience and training to date to :

Box No. 1979 "The Builder"

BUILDING SURVEYOR (Junior) Required in Contractor's office in Hatfield. Good opportunity. Enquiry to Final Account.—Apply Box 1937, "The Builder."

SURVEYOR to take charge Accounts Department by established firm of Building Contractors East London area. Must have good experience of Certificate Valuations, Site and Variation Measuring up to and including agreement final account. Preference given to applicants holding A/L.I.O.B. or equal. Car provided. Contributory pension scheme.—Write stating age and brief details of experience to Box 1938, "The Builder."

ASSISTANT Required by London Surveyors for alterations, specifications, accounts, etc.—Write, stating age, experience, salary required, and when available, to Box 1965, "The Builder."

EXPERIENCED SURVEYOR Required for Site measurement, interim valuations and final accounts. South London areas. Non-contributory pension scheme, annual bonus scheme.—Write: AGOMBAR, 109 Elmers End-road, Beckenham, Kent—or 'phone SYD 4481/5, Ext. 18.

SENIOR SURVEYOR Required by Building Contractors for large Contracts mainly in South London and suburbs. Non-contributory pension scheme, annual bonus scheme.—Write, stating age, experience, to: AGOMBAR, 109 Elmers End-road, Beckenham, Kent, or 'phone SYD 4481/5, Ext. 18.

SURVEYOR Required by DRURY CONSTRUCTION (SOUTH WESTERN), Ltd., for staff vacancy in Bristol office. Position permanent and superannuated for suitable applicant capable of Take-off to Final Account.—Details age, experience and salary to General Manager, 9 Broad-quay, Bristol 1.

MEASURING SURVEYOR Required by Chartered Quantity Surveyors, Holborn area for contracts in London and Home Counties. Experienced in preparation of interim valuations and final accounts. Good salary to right applicant. 5-day week.—Details to Box 2029, "The Builder."

LONDON FIRM of Chartered Quantity Surveyors Require a MEASURING SURVEYOR for their office in Stafford. Experienced in preparation of interim valuations and final accounts. Varied contracts. Good salary to the right applicant. 5-day week.—Details to Box 2030, "The Builder."

TWO EXPERIENCED SURVEYORS Required by leading reinforced concrete engineers for preparation of Bills in Estimating Department. Permanent pensionable position. 5-day week.—Reply fully, stating age, education, salary required, etc., to Box 2033, "The Builder."

EXPERIENCED MEASURING SURVEYOR fully conversant with W.D. Schedule Required by Chartered Quantity Surveyors for contracts in East Midlands area. The successful applicant will be required to be based on Leicester. Car owner an advantage.—Details of experience and salary required to Box 2063, "The Builder."

MEASURING SURVEYOR Required by London Quantity Surveyors for building contracts in London area. Applicants must be experienced in preparation of interim and final valuations and settlement of accounts.—Apply stating age, experience and salary required, to Box 2065, "The Builder."

BUILDER'S SURVEYOR Required. Must have sound knowledge of site measuring, variations, interim valuations, final accounts, etc.; pension scheme. Initially the successful applicant would be engaged on a large War Department contract at Aldershot, upon completion of which transfer to Southampton would be effected, subject to satisfactory results. —Apply, in writing, with all particulars, including salary expected, to BRAZIER & SON, Ltd., 303/305 Portswood-road, Southampton.

BUILDER'S SURVEYOR Required. Must have sound knowledge of site measuring, variations, interim valuations, final accounts, etc., pension scheme.—Apply in writing only, giving full particulars of age, experience, education and salary desired, to BRAZIER & SON, Ltd., 303-305 Portswood-road, Southampton.

MEASURING SURVEYOR Required by Manchester Chartered Quantity Surveyors. Permanent position. Bonus and pension schemes.—Particulars and salary required to Box 2070, "The Builder."

SITE MEASURING SURVEYOR Required by Chartered Quantity Surveyors for preparation of estimates, site measuring of Building and Civil Constructions and other duties connected with large works.—Applications in writing, stating age, experience and salary required, to FRANK N. FALKNER & PARTNERS, Chartered Quantity Surveyors, Windscale Works, Seascale, Cumberland.

BONUS SURVEYORS Required for Building Sites in the London area. Good salary and expenses. Experience of measuring all trades essential.—Details of experience, age, etc., to Chief Bonus Surveyor, TERSONS, Ltd., Dollis Park, Finchley, N.3.

BONUS SURVEYORS Required for Building Sites in the Huddersfield area. Experience of measuring all trades essential. Good salary and expenses. Applicants will be interviewed at Huddersfield by appointment.—Apply by letter, in the first instance, stating experience, age, etc., to Chief Bonus Surveyor, TERSONS, Ltd., Dollis Park, Finchley, London, N.3.

JUNIOR SURVEYOR Required, to work under supervision of Senior in preparing estimates and generally assist in Surveying department.—Please state age, previous experience and salary required (in strict confidence) to the Managing Director, L. & W. WHITEHEAD, Ltd., Building Contractors, 169 Clapham-road, London, S.W.9.

TECHNICAL ORDER SURVEYORS

required by
WILSON LOVATT & SONS LTD.

for interesting work in the Home Counties. Every opportunity to capable men to gain good experience in all Departments of Building. Contributory Pension scheme in operation after probationary period. Apply in writing giving brief details of training and salary required to

16 Grosvenor Crescent, London, S.W.1.

Experienced
BONUS AND COSTING SURVEYORS

required for Civil Engineering and Roadwork Contracts. Mobility essential. Write stating age, previous experience and salary required to

Personnel Officer,
A. Monk & Company, Limited,
Padgate, Warrington, Lancs.

MEASURING SURVEYORS
required by
OPUS LTD.

Applicants should be fully experienced in site measuring for interim Certificates, Sub-Contractors, etc., to final account stage, for Contracts approximately £100,000.

The positions are permanent and carry good salaries and pleasant working conditions for the right men.

Apply in writing giving details of age, experience and salary required to:

20, TELFORD AVENUE,
LONDON, S.W.2

BUILDING SURVEYOR

REQUIRED BY
TARMAC CIVIL ENGINEERING LTD.

Aged 25-35 approximately for responsible position to take-off quantities and prepare accurate schedules of materials for buying. H.N.C. or L.I.O.B. standard with experience in quantities and good knowledge of building construction desirable. This interesting post connected with a wide and varied range of tendering enquiries is progressive and pensionable. Please apply in writing, stating age, experience, salary required to :

Personnel Office,
Tarmac Civil Engineering,
Ettingshall, Wolverhampton.

BUILDING SURVEYOR URGENTLY REQUIRED

A GOOD OPPORTUNITY FOR A KEEN MAN.

Apply:—

PRESTIGE & CO. LTD.
149, GROSVENOR RD.
S.W.1. (Tel. VIC 7701)
for Appointment.

MEASURING SURVEYOR

Required for progressive Building Contractors engaged mainly on housing contracts in the Mansfield area.

Applicant should preferably have had at least 3 years site experience and should be capable of measuring for and rendering Interim and Final Accounts.

Apply in writing in first instance giving full details of previous experience, with salary range required. All replies treated in strictest confidence.

Fleet Bros. Ltd.,
72-74, Newgate Lane,
Mansfield, Notts.

Lavender McMillan (Contractors) Ltd. require

MEASURING SURVEYORS

Applications are invited for the above positions. Applicants should be capable of taking-off quantities, site measuring, preparation of valuations and the settlement of Sub-Contract accounts. These positions are at Head Office, Oxford and Suffolk areas. Apply in writing to:

The Secretary,
54 Cheam Common Road,
Worcester Park, Surrey,

stating age, experience and salary required.

ASSISTANT SURVEYORS

YOUTH HOSTELS ASSOCIATION Require ASSISTANT SURVEYOR, to help in survey, maintenance and adaptation of hostel buildings. Salary scale £750 to £850.—Particulars and application form from National Secretary, YHA, St. Albans. Closing date for receipt of applications—November 14th, 1960

ASSISTANT Required for Chartered Building Surveyor's City office to assist in preparing and measuring variations to Conversion Contracts, Working-up, etc.—Please reply stating previous experience and salary required to Box 999, "The Builder."

ESTATE development Company Requires ASSISTANT SURVEYOR. Experience in Measuring, Subcontract work, supervision of sites and Setting-out. Sound knowledge of building construction necessary. Details of previous positions held, training, age and salary required. Permanent appointment and pension scheme.—Box 1940, "The Builder."

JUNIOR/ASSISTANT SURVEYORS Required by National Contractor for work at Head Office and on sites in the London area. Enthusiastic young applicants, keen to make a career in Contractor's surveying, and having preferably had some experience, should apply to Chief Surveyor, BERNARD SUNLEY & SONS, Ltd., 24 Berkeley-square, W.1.

PROPERTY COMPANY, London, ASSISTANT SURVEYOR (Maintenance). Age 20/25.—Box 922, "The Builder."

ASSISTANT BUILDING SURVEYOR Required in office of Chartered Surveyors with extensive London management and general building work. Salary £750 with prospects.—Box 1122, "The Builder."

ASSISTANT SURVEYOR, salary up to £1,000, five-day week, pension scheme, for London Chartered Surveyors near Victoria Station. Write stating age, experience, salary required.—Box 2048, "The Builder."

FORD & WALTON LTD.

urgently require

ASSISTANT SURVEYORS

with experience in either Contractors' or Quantity Surveyors' office. Attractive salary and allowances with excellent prospects for first-class applicants with ambition and initiative. Employment will be at Stratford, E.15, until January, 1961, when the Company is moving to spacious new headquarters now under construction at Wembley Park, Middlesex.

Applications in own handwriting, stating age, experience, qualifications and salary required, to :—

Chief Surveyor, Walton House, Warton Road, Stratford, E.15.

ASSISTANT SURVEYOR Required by Contractors for work at Head Office and on Sites to assist in general work in connection with interim and final accounts, measurement of sub-contractors, taking-off, etc. Preferably with some experience.—Details of experience and salary required should be sent to THE LONDON FERRO-CONCRETE CO., Ltd., Maxted Close, Hemel Hempstead, Herts.

ASSISTANT (early 20's) Required by progressive London Property Group. Opportunity for young Surveyor to improve position if willing to work hard. Selling experience an asset but not essential.—Apply, Ref. S., Box 2031, "The Builder."

EXPERIENCED ASSISTANT BUILDING SURVEYOR, aged 25-35. Required for busy Surveying Department of Architects' office.—Please write, giving details of experience, to BEARD, BENNETT, WILKINS & PARTNERS, 101 Baker-street, London, W.1.

TAKERS OFF

JUNIOR TAKER-OFF, with minimum 12 months' Taking-off experience. Required. Varied work, some account settlement.—Apply, stating age, experience and salary required, H. J. RIDGE & PARTNERS, Quantity Surveyors, 42 Hythe Bridge-street, Oxford.

JUNIOR TAKER-OFF Required in small Knightsbridge Quantity Surveyors' office. Good prospects. Opportunity to gain experience in all branches of the profession.—Reply, with particulars, to Box 2004, "The Builder."

TAKER-OFF Required by London firm of Quantity Surveyors for work in Portsmouth branch.—Apply stating age, experience and salary required to Box 1990, "The Builder."

JUNIOR TAKER-OFF Required by Chartered Quantity Surveyors, near Victoria. Good opportunity for gaining experience. Five-day week. Luncheon vouchers.—Write, in own handwriting, stating salary required, Box 2034, "The Builder."

JUNIOR TAKER-OFF Required by Chartered Quantity Surveyors, Holborn area. Good salary and opportunity for advancement. Varied contracts. 5-day week, luncheon vouchers.—Write, stating age and experience, to Box 2028, "The Builder."

CHARTERED QUANTITY SURVEYOR Requires ASSISTANT TAKERS-OFF for housing, hotels, factories and other works. Head office: Southsea, Hants.—Box 2039, "The Builder."

TAKERS-OFF and WORKERS-UP Required by provincial firm of Chartered Quantity Surveyors with offices in West Midlands, South Devon and South Wales. Pension and Sickness schemes available.—Full details of age, experience, locality preferred and approximate salary, to Box 2016, "The Builder."

TAKERS-OFF Required by Quantity Surveyors in their London and Beaconsfield offices for work on building and civil engineering contracts.—Apply stating age, experience and salary required, to Box 2064, "The Builder."

EXPERIENCED TAKER-OFF Required by London firm of Chartered Quantity Surveyors. Luncheon vouchers; 5-day week; overtime paid; pension scheme.—Please write stating age, experience and salary required to Box 2059, "The Builder."

SENIOR TAKING-OFF ASSISTANT Required by Bath firm of Quantity Surveyors. Permanent position. Five-day week, overtime extra.—Apply in own handwriting, stating experience, age and salary required.—Box 2067, "The Builder."

CAMBRIDGE. TAKER-OFF and MEASURING SURVEYOR wanted.—Apply A. S. WILSON AND PARTNERS, 8 Storeys-gate, Westminster, S.W.1.

TAKERS-OFF Required, to work in small but busy Chartered Quantity Surveyor's office in Croydon to help in the Taking-off, preparation of Bills of Quantities, measurement on site and final accounts of interesting and varied work in London and elsewhere.—Reply for this permanent situation, stating age, experience and salary commensurate with experience, to SARJEANT, STIMPSON & PARTNERS, 78 Park-lane, Croydon, Surrey.

TAKERS-OFF Required by London Quantity Surveyors. Salary scale £900-£1,500 per annum, plus overtime according to ability.—Please write, giving comprehensive details of experience, age, etc., to Box 1948, "The Builder."

CHARTERED QUANTITY SURVEYORS, Bloomsbury district, Require Senior and Junior TAKER-OFF for permanent positions. Medium-sized office with varied programme of work. Non-contributory pension scheme available after year's service.—Please reply, stating age, experience and salary required, to Box 1949, "The Builder."

JUNIOR TAKER-OFF with experience Required by C.Q.S. in West Sussex. Five-day week. L.Vs. Write stating age, experience and salary required.—Box 1921, "The Builder."

TAKER-OFF. Final standard, Required. L.Vs., Pension scheme.—Write giving full details to BRYDEN & WOODFORD, 33 Catherine-place, Westminster, S.W.1.

CHARTERED QUANTITY SURVEYORS, Westminster, have vacancy for experienced TAKER-OFF. L.Vs., Pension scheme.—Apply Box 1728, "The Builder."

SENIOR and JUNIOR TAKERS-OFF Required by CAXTON REINFORCED CONCRETE, Ltd., specialist contractors for R.C. framed structures, hollow tile floors, etc. Five-day week.—Apply, stating age, experience and salary required, to the Secretary, 45 Bedford-row, W.C.1.

TAKER-OFF Required by Quantity Surveyors in Victoria area for varied types of Contracts from taking-off to final account. Very good prospects for advancement; pension scheme, luncheon vouchers.—Write, stating age, experience and salary required, Box 1888, "The Builder."

TAKERS-OFF Required. Senior and Intermediate. Five-day week and pension scheme.—Apply, giving age, experience and salary required, to OSWALD E. PARRATT & PARTNERS, Adelaide House, London Bridge, E.C.4.

TAKER-OFF. Qualified R.I.C.S. 1956 to 1960. Required by DEARLE & HENDERSON, for London office.—Write, 75 Victoria-street, S.W.1, or 'phone: ABBey 2841.

HIGHLY EXPERIENCED TAKERS-OFF Required in Chartered Quantity Surveyors' office on work on substantial, varied and interesting projects. A high professional standard is maintained in the office and only applicants with considerable experience should apply. West Central area. Three weeks' annual holiday and luncheon vouchers. A pension scheme is in operation in the office.—Apply, stating age, qualifications, experience and salary required, to Box 1850, "The Builder."

A. S. WILSON AND PARTNERS
require for London Office the following Staff:

TAKERS-OFF

with at least one year's experience.

WORKERS-UP

capable of Abstracting and Billing all trades.

Apply stating experience and salary required to—

8, Storey's Gate, S.W.1

SENIOR TAKER-OFF

required for Permanent Staff appointment with National Contractors to work temporarily at their Head Office in Berkeley Square, and shortly thereafter at their office at Hemel Hempstead.

This is a Senior appointment, having excellent prospects for keen and adaptable Taker-Off, aged 30-45.

Applications, giving brief details as to previous experience, to

Chief Surveyor,
BERNARD SUNLEY & SONS LTD.,
24 Berkeley Square, W.1.

JUNIOR TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £800 to £900 p.a.—Reply in writing stating age and experience to Box 979, "The Builder."

TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £1,000 to £1,200 p.a.—Reply in writing stating age and experience to Box 984, "The Builder."

SENIOR TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £1,200 to £1,500 p.a.—Reply, in writing, stating age and experience to Box 961, "The Builder."

SENIOR and JUNIOR TAKERS-OFF Required by West End Chartered Quantity Surveyors for permanent staff.—Write, stating age, experience and salary required, to Box 908, "The Builder."

MANCHESTER.—London Quantity Surveyors Require experienced TAKER-OFF for interesting work in the North-West area. Five-day week. Superannuation scheme after trial period.—Box 945, "The Builder."

SENIOR and Junior TAKER-OFF Required by London Chartered Quantity Surveyors.—Please reply, stating age, experience and salary required, to G. F. K. WHITE & HAYTON, F/F.R.I.C.S., 38/39 Parliament-street, S.W.1.

AN opportunity for a Taker-off with sound professional training to join an expanding firm of Chartered Quantity Surveyors offering varied and interesting duties including following contracts through to completion. Team spirit essential.—Please write stating age, experience and present salary to RAYMOND J. PLAYLE, A.R.I.C.S., 96 Eltham-road, S.E.12.

EXPANDING practice South-East London Requires TAKER-OFF with sound professional training. Excellent prospects for the right man. State experience and present salary to Box 925, "The Builder."

YOUNG QUANTITY SURVEYOR, Intermediate standard or recently qualified, Required for Central London Professional office. Salary range £800-£1,100, according to age and experience. 5-day week. Pension scheme. Luncheon Vouchers.—Apply, with details, to Box 1825, "The Builder."

TAKER-OFF/MEASURING SURVEYOR Required in Harrogate Chartered Quantity Surveyors' office.—Please apply, stating age, experience and salary required, to THOMPSON & ALEXANDER, 2 Princes-square, Harrogate. (Tel: 69233.)

TAKER-OFF Required by Chartered Quantity Surveyors near Victoria Station. Permanent appointment. Pension scheme. Luncheon vouchers.—Write full particulars to Box 1753, "The Builder."

TAKER-OFF of Intermediate to Final standard Required by firm of Quantity Surveyors, Westminster. Good starting salary with excellent prospects and regular reviews, luncheon vouchers, two weeks' holiday rising to three weeks after three years' service with the firm.—Apply stating age and experience to Box 991, "The Builder."

TAKER-OFF with ability to handle medium schemes without supervision Required by busy West End office handling very varied types of contracts. Salary about £1,100 p.a. depending on experience. Hours 9.15-5.15, no Saturdays.—Write stating age, experience, etc., to C. T. R. KELLY AND PARTNERS, 8 Manchester-square, W.1.

WORKERS UP

EXPERIENCED WORKER-UP Required for Builder's Head Office. Must be able to produce Bills of Quantities from dimensions quickly and accurately.—Write stating previous employers, experience, salary required and when free, to LAVENDER McMILLAN (CONTRACTORS), Ltd., 54 Cheam Common-road, Worcester-park, Surrey.

WORKER-UP Required by firm of Quantity Surveyors, Westminster. Five-day week and Luncheon Vouchers. Good prospects and opportunities for the right man.—Apply stating age and experience to Box 980, "The Builder."

EXPERIENCED WORKER-UP Required by firm of Chartered Quantity Surveyors in West End, London.—Reply stating experience, age, salary required to Box 931, "The Builder."

WORKERS-UP Required, Senior and Junior for office of Chartered Quantity Surveyors in the Holborn area.—Box 913, "The Builder."

PERMANENT vacancy for an experienced WORKER-UP with firm of Quantity Surveyors, Westminster. Five-day week. Luncheon vouchers. Salary according to qualifications and experience and reviewed regularly.—Apply Box 936, "The Builder."

WORKERS-UP Required by London Chartered Quantity Surveyors for permanent staff.—Write stating age, experience and salary required to Box 998, "The Builder."

WORKERS-UP Required, with opportunities for advancement, on the permanent staff of London and Branch office at Kingston, Surrey. L.V.s and Pension scheme.—Write, in the first instance, stating experience and salary required, to ERIC G. LYNDE & PARTNERS, Chartered Quantity Surveyors, 41 Russell-square, London, W.C.1.

MANCHESTER. Experienced WORKER-UP Required for permanent situation. Good commencing salary, overtime at time and a-quarter.—Write, stating age and experience, Box 1748, "The Builder."

WORKER-UP, with at least 3 years' experience. Required by London (W.C.1) Chartered Quantity Surveyors for permanent progressive position.—Please reply, stating experience, age and salary required, to Box 1950, "The Builder."

JUNIOR WORKER-UP with some experience of Abstracting and Billing. Required by C.Q.S. in West Sussex. Five-day week. L.Vs. Write stating age, experience and salary required.—Box 1920, "The Builder.'

WORKER-UP Required Chartered Quantity Surveyor's office, Brighton. Five-day week, L.Vs.—Box 1923, "The Builder."

WORKERS-UP Required, Senior and Junior. Five-day week and pension scheme.—Apply, giving particulars of experience and salary required, to OSWALD E. PARRATT & PARTNERS, Adelaide House, London Bridge, E.C.4.

EXPERIENCED WORKER-UP Required in London (Victoria) Chartered Quantity Surveyors' office. Would be deputy to the chief Worker up.—Write DEARLE & HENDERSON, 75 Victoria-street, S.W.1, or 'phone: ABBEY 2841.

REQUIRED by a professional firm in the west-central district. Worker-up, with about 5 years' experience.—Write particulars to Box 1772, "The Builder."

WORKER-UP for long-term contract at Newport, Mon., Required by firm of Chartered Quantity Surveyors. Rented accommodation available.—Please apply stating age, experience and salary required, to Box 2060, "The Builder."

FIRM of Chartered Quantity Surveyors have permanent vacancy in their London office for WORKER-UP. Luncheon vouchers; pension scheme; overtime paid.—Please write stating age and experience to Box 2061, "The Builder."

WORKER-UP Required by Richmond, Surrey, Chartered Quantity Surveyor, with minimum 4 years' professional experience, for permanent position.—Write, stating age, experience and salary required, to Box 1733, "The Builder."

WORKER-UP, preferably studying Intermediate R.I.C.S., Required for small expanding West End Chartered Quantity Surveyor's office. Varied work, excellent prospects for keen, willing worker.—Box 2044, "The Builder."

WORKER-UP Required in professional office Victoria area.—Apply ELLIOTT, COX & PARTNERS, 172 Buckingham Palace-road, S.W.1. Tel.: Sloane 9238.

WORKER-UP Required by Chartered Quantity Surveyors near Victoria. Luncheon Vouchers.—Write, in own handwriting, stating age and salary required, Box 2035, "The Builder."

WORKER-UP Required by West End firm of Chartered Quantity Surveyors. Salary £600 per annum.—Apply, Box 2040, "The Builder."

WORKER-UP Required by Chartered Quantity Surveyors. Five-day week, Luncheon vouchers. Salary according to experience and qualifications.—Full details to be sent to HARRIS, ROURKE & SIMPSON, 26 Soho-square, London, W.1. Telephone: GERrard 8943.

WORKER-UP Required, with excellent opportunity for permanent progressive position in West End office. 5-day week. Salary £650/£800 according to age and experience.—Box 2019, "The Builder."

WORKER-UP, competent to train juniors and keen to learn Taking-off. Excellent opportunity for ambitious man. Three weeks' holiday, L.Vs., overtime, pension scheme.—CITy 4146.

JUNIOR WORKER-UP

Required for Q.S. Section of Industrial Company. Pensionable and free lunches. Opportunity for site measuring. Please reply, stating age and experience to:

Chief Surveyor,
Wiggins, Teape & Co. Ltd.,
Gateway House,
1, Watling Street, London, E.C.4.

ENGINEERS

ENGINEER, capable of designing all classes of reinforced concrete structures. Required by INDENTED BAR & CONCRETE ENGINEERING CO., Ltd., 171 Victoria-street, London, S.W.1.—Apply by letter only, giving full details of experience.

F. R. BULLEN & PARTNERS, Consulting Engineers, Require for their Glasgow and Darlington offices DETAILERS experienced in reinforced concrete or structural steelwork.—Applications in writing should be sent in the first instance to Dacre House, Dean Farrar-street, Westminster, London, S.W.1.

SITE ENGINEER Required for Building Contracts, London area and suburbs. Progressive position, good salary for man with initiative.—Apply, in writing, stating age and experience, AGOMBAR, 109 Elmers End-road, Beckenham, Kent, or 'phone SYD 4481/5, Ext. 18.

J. DOUGLASS MATHEWS & PARTNERS, Chartered Architects, Require immediately, resident SITE SUPERVISING ENGINEER, for building project North Scotland, approximately two years' duration. Opportunity for satisfactory applicant obtaining permanent staff appointment. Salary according to experience £1,350-£1,500 per annum.—Apply, giving experience and references, to 3 Ebury-street, London, S.W.1. (Victoria 6848.)

JUNIOR SITE ENGINEER urgently Required for large R.C. building contract in Holborn.—Apply, Box 2062, "The Builder."

National Building and Civil Engineering Contractors invite applications from

SETTING OUT ENGINEERS

for work on sites in London and South West England. The positions, which are permanent, offer interesting work and prospects of advancement within an expanding group.

Please send full details of experience, qualifications and salary required to

Box No. NB 3959
A.K. Advg.,
212a, Shaftesbury Avenue, London, W.C.2.

ESTIMATORS

ESTIMATOR/SURVEYOR Required by large London Builders. Must have had experience in Measuring Sub-contractors all trades and dealing with variations. Excellent opportunity for young man with some knowledge of preparation of small Estimates. Situation permanent and pensionable, alternative Saturdays free.—Reply stating age, experience and salary required to Box 1962, "The Builder."

JOINERY ESTIMATOR Required for S.E. London Joinery Works for trade joinery. Modern factory equipment and working conditions. Must be capable of estimating, costing and rendering final accounts. Permanent position, pension scheme. State age, experience and salary required.—Box 1941, "The Builder."

ESTIMATOR/SURVEYOR Required by FORD & WALTON, Ltd., Small Contracts Department. Employment will be at Stratford, E.15, until January, 1961, when the company will be moving to new headquarters being built at Wembley Park, Middlesex.—Applications, stating age, experience, qualifications and salary required, to FORD & WALTON, Ltd., Walton House, Warton-road, London, E.15.

ESTIMATOR/SURVEYOR Required with experience in Tendering, Valuations for Certificates, preparing and settling Final Accounts.—Apply with details to the Chief Estimator, F. G. MINTER Ltd., 4 Buckingham-gate, London, S.W.1.

ESTIMATOR SUPERVISOR Required to assist director of medium-size firm of Builders and Decorators in S.W. London area. Comprehensive knowledge of all types of jobbing works necessary.—Box 1859, "The Builder."

ESTIMATOR Required for Brentford office. The work entails pricing acid resisting linings and constructions for work at home and abroad. The position calls for a conscientious man with common sense and integrity with a good building and civil engineering background. Knowledge of this particular type of work preferable but not essential providing successful applicant is willing to learn. Age immaterial. Excellent prospects for right man. Salary £800-£1,200 according to experience.—Box 1846, "The Builder."

SENIOR ESTIMATOR Required for Building and Civil Engineering Contractors in West of England. Permanent position. Pension scheme in operation.—Apply stating age, experience and salary required to Technical Manager, JOHN KNOX (BRISTOL) Ltd., Winterstoke-road, Bristol, 3.

ASSISTANT ESTIMATOR Required by large firm of Building Contractors in their Feltham office. Good salary and prospects for right man. Pension scheme.—Reply in writing, stating age, experience and salary required, to Regional Manager, UNIT CONSTRUCTION CO., Ltd., Central Way, Faggs-road, Feltham, Middlesex.

ESTIMATOR Required by leading Acoustic Engineers, fully experienced in joinery and timber construction. Good salary, prospects, and pension scheme in operation.—Written applications only, with full details of experience, to: SOUND CONTROL Ltd., Colneside Works, West Drayton, Middlesex.

ESTIMATOR/SURVEYOR Required. Experienced in tendering for contracts up to £60,000, preparing valuations for certificates, adjusting variations and dealing with final accounts.—Please reply, giving brief outline of experience, age and salary required (which will be treated in strict confidence) addressed to the Managing Director, L. & W. WHITEHEAD, Ltd., Building Contractors, 169 Clapham-road, London, S.W.9.

ASSISTANT ESTIMATOR Required for varied and interesting work, including Taking-off, Site Measuring, Targetting, Planning and Job Management in all classes of building work. Applicants should have had some experience in pricing Bills. Excellent prospects to progress with this expanding group of companies.—Apply to Mr. Lott, R. D. HOPE & CO., Ltd., 15 Selsdon-road, South Croydon, Surrey. CROydon 9262.

JUNIOR ESTIMATOR Required to help build up modern purpose-made Joinery concern.—Write or telephone, JEMS JOINERY, Ltd., 6-12 Kennington-lane, S.E.11. REL 1250.

EXPERIENCED ESTIMATOR and SURVEYOR Required. Taking-off quantities and pricing same, pricing Bills of Quantities, etc. Old-established Surrey builders. Please reply, in writing, stating age, experience and salary required. Car driver essential.—Box 2053, "The Builder."

BUILDING ESTIMATOR

A Building Estimator is required with experience of estimating for general building and R.C. work by a firm in S.W. England with turnover rising from £1½ million. He will be responsible to a Director and should be in the 30–45 age group with at least 5 years' experience in a similar position. The post offers substantial remuneration and is pensionable. Applications, which will be treated in confidence, should give full details of career in the industry, educational background, present salary and outside interests, and be addressed to the Managing Director

Box 2037, "The Builder"

CIVIL ENGINEERS

Civil Engineers are urgently required for employment in the Development Section of one of Britain's largest Steel Works.

The men we need will be capable of designing and detailing all types of Industrial Structures in reinforced concrete and steelwork and should have an Engineering Degree or the equivalent. They will also be able to co-ordinate their work with other Engineering Departments.

This is an excellent opportunity of gaining experience in the design of Heavy Structures.

Box No. 2012, 'The Builder'

LESLIE & Co. Ltd.

invite application for the position of

ESTIMATOR

This position in the London Office offers good opportunities for a keen ambitious estimator with ability and sound training to estimate for major contracts, under minimum supervision and using his own initiative.

The Company operates on a large scale throughout the country and has Branch Offices in Scotland, Northern England, Midlands and the South. This post carries an attractive salary, good annual bonus and non-contributory pension scheme.

Apply in confidence to the Chief Estimator, Peel Street, Kensington, London, W.8.

TAYLOR WOODROW CONSTRUCTION LIMITED

require a

BUILDING ESTIMATOR

Applicants must be experienced men capable of preparing estimates for all types of building work, including reinforced concrete construction.

Interviews can be arranged at any time including evenings and Saturday mornings with travelling expenses paid.

Write to:-

Personnel Manager, 345 Ruislip Road, Southall, Middlesex.

ESTIMATOR SURVEYOR

Post is suitable for man who has obtained A/L.I.O.B. or H.N.C. and had up to 5 years experience of estimating and measuring for final accounts.

Progressive permanent and pensionable appointment.

Write giving details of training, experience and salary required to

Hammond & Miles Ltd., Scrafton Road Works, Ilford.

BUILDING ESTIMATOR/SURVEYOR

Opportunity for progressive, energetic, experienced man about 25/35, in substantial Builders/Decorators, Kingston, Surrey. Estimate to final account, including site supervision. Salary range £800–£1,000 to commence. Pension. Send full details in strict confidence to

Box No. 1743, "The Builder"

NATIONAL BUILDING AND CIVIL ENGINEERING CONTRACTORS

invite applications from young men for a position as

ESTIMATING ASSISTANT

The post would suit a man who has completed a course of training in either surveying or estimating and is now seeking an opportunity of gaining further experience with excellent prospects of advancement. Please send full details, with an indication of salary required, to

Box No. NB 3963
A. K. Advg.,
212a, Shaftesbury Avenue, London, W.C.2.

GALBRAITH BROS. LTD.

require

ASSISTANT ESTIMATORS

for permanent and progressive positions at both London and Crayford Offices. Applicants should have sound knowledge of building up prices and would work directly under supervision of Chief Estimator.

ASSISTANT SURVEYORS

for permanent progressive positions at Crayford Office. Applicants should be capable of taking off quantities, site measuring, preparing valuations etc., and should preferably have knowledge of planning and cost control of contracts.

Apply in writing to Crayford Bridge, Crayford, Kent, stating age, experience and salary required.

ESTIMATOR/ SURVEYOR

required by North London Contractors, fully experienced enquiry to Final Account for contracts up to £500,000.

Write stating age, experience and salary required to:

Box No. 1944, "The Builder"

JOINERY ESTIMATOR

A vacancy exists for a Joinery Estimator and possibly also for an Assistant Joinery Estimator at a Joinery Works in the South West London Area. The Works is engaged on Contract Joinery.

If you are interested in either of these positions, please send full details of your career to date, and state your age and salary which you would require to

Box No. 1858, "The Builder"

WILLMENT BROS., LTD.

Have vacancies for Civil Engineering Estimators and Quantity Surveyors at their Head Office in Isleworth. Applicants should be over 30 and have practical experience of large Civil Engineering projects. Replies, which will be treated in strict confidence, should be addressed to:

The Managing Director,
Willment Bros., Ltd.
462, London Road, Isleworth, Middlesex.

MANAGERS

ASSISTANT Required to Manager of Decorating and Small Works Builders. N.W. Middlesex. Excellent prospects. Able to drive.—Write, giving details of age, experience, salary required, to Box 1936, "The Builder."

SHOPFITTING MANAGER, experienced Benchwork, Setting-out, outside fixing, supervision, staff control, general administration. Excellent opening for suitable man.—HORWOOD, Ltd., 2/8 Stroud Green-road, N.4. STAmford Hill 3258.

MANAGER Required for Building Contractor's new Branch Office in mid-Sussex town. Applicants must be fully qualified and able to work on own initiative. Age preferably 35/45. Small and medium-size contracts envisaged. Salary £1,000/£1,250 plus annual bonus.—Apply Box 1889, "The Builder."

COMMERCIAL ASSISTANT to General Manager of large firm of Structural Engineers Required in South Wales area. Only applicants with wide experience of Structural Steel Engineering should apply. Pension scheme, five-day week and canteen facilities.—Box 1751, "The Builder."

BUILDING CONTRACTORS Require fully experienced SITE OFFICE MANAGER. Permanent, pensionable appointment—Full details, age and salary required, to Box 2006, "The Builder."

MANAGER

for Central Ordering Department of National Contractors London Office.

Should be skilled in the taking off of quantities and technical drawing and must have a comprehensive knowledge of the Builders Merchants, Suppliers and Sub-Contractors of London and the Southern Counties. Must also be capable of supervising staff engaged on site ordering.

Good salary with pension and bonus schemes in operation.

Write full particulars to

Box No. 2036 "The Builder"

ASSISTANT TO CONTRACTS MANAGER

Opportunity for young and ambitious man, with site experience, and capable of contract planning.

Superannuation and free life assurance.

Full details, in writing, with salary required, to:—

KIND & CO. (BUILDERS) LTD.
18a Lancaster Road,
Leytonstone, E.11.

AREA CONTRACTS EXECUTIVE

Area Contracts Executive required, resident in the Midlands, to call on developers and builders to initiate and convert enquiries to contracts for proven system of steel frame construction of houses and bungalows.

Salary, profit-sharing, non-contributory pension scheme, car.

Applicants must have proven sales record and knowledge of the building trade and allied professions.

Send full details, in confidence, of age, experience to—

A. M. MALIN & PARTNERS LTD.
(Management & Marketing Consultants)
Fenwick House,
292 High Holborn, London, W.C.1.

A. & C. BARVIS LTD., THUNDERSLEY, ESSEX

Precast Concrete Manufacturers and
B. & C. E. Contractors

require a

COMMERCIAL MANAGER—A.C.B./1

This manager will be responsible to the Managing Director for the purchase of all materials and services, the control of stores/equipment, the plant/transport maintenance sections and the movement of the company's transport.

Applicants should be experienced in these fields, be between 30/40 years, and have a thorough knowledge of prices and contract conditions used in the building industry.

This growing firm has a pension scheme for its permanent staff. Apply stating age, education, qualifications, experience, and salary required in the first instance to:

The Advisory Service for the Building Industry
82, New Cavendish Street, London, W.1

TERSONS LIMITED

Expansion in our Planning Department offers a wonderful opportunity for experienced men interested in this rapidly developing field in the Building Industry.

Applicants should have the ability to work with Regional Managers and Agents in the planning of Contracts and co-ordination of all trades ; to analyse and organise work ; and to ensure the co-operation of Sub-Contractors and Suppliers.

The position offers a high salary and car allowance and participation in the Company's superannuation and free insurance schemes.

Applicants should apply to the

Progress and Planning Officer,

TERSONS LIMITED,

Dollis Park, Finchley, London, N.3.

Contracts Manager

Contracts Manager required by leading West Country contractors, to be between the age of 30–40, fully competent to supervise several Building and light Civil Engineering contracts. Only men experienced in this work should apply for this responsible and pensionable position. Write stating salary required, age, qualifications and previous experience.

T. Holdoway & Sons Ltd.,
Westbury, Wilts.

BRANCH ACCOUNTANT

required by leading public company in the Building and Civil Engineering Industry. Age limit 45 years. Must be of Intermediate professional standard and have industrial experience in financial accounts to Trial Balance and knowledge of modern contract costing. Capable of staff supervision. Congenial working conditions, pension scheme, canteen, etc. Write stating full details including salary required to:—

Mr. Webster,
W. J. SIMS SONS & COOKE LTD.,
Sherwood House,
Beddington Lane, Croydon, Surrey.

PRECAST CONCRETE MANUFACTURERS Require WORKS MANAGER. Must be capable organiser, used to handling labour and have sound knowledge of Concrete. —Applications, in writing, to be marked "Works Manager," to CONCRETE PRODUCTS Ltd., Rosedale Works, Hunmanby, nr. Filey.

BUILDING SURVEYOR/MANAGER Required by expanding firm of General Building Contractors to take complete charge of contracts and jobbing, including final accounts. Preparing plans submitting to Local Authority. North Herts.—Box 2071, "The Builder."

EMPLOYERS' FEDERATION (Building Industry) seek a suitable candidate for training to executive position. Initial duties would entail travelling after training. Experience of the industry an advantage, good education, age 30-40. Non-contributory pension scheme. State experience and salary required.—Box 1998, "The Builder."

JOINERY MANAGER/FOREMAN for sole control of small but progressive works with modern plant. Applicant requires ability to prepare own details, set-out, have knowledge of costing and estimating for all classes of joinery and take sole control.—Apply, stating age, salary required, W. J. JERRAM, Ltd., Sandford Works, E.6.

CONTRACTS SUPERVISOR

aged 25–35 required as Assistant to Director in control and management of mainly Commercial and Industrial Building Contracts. The position offers scope for advancement in a Company of high repute, with offices close to Central London. Applicants should provide full details of education and experience to

Box No. 1966, "The Builder"

Call at

THE BUILDER BOOKSHOP

THE BUILDER LIMITED, The Builder House,
Catherine Street, Aldwych, London, W.C.2

Telephone: TEMple Bar 6251 (Extension 5)

THE ADVISORY SERVICE FOR THE BUILDING INDUSTRY

invites applications from men aged 30/40 years for a

MANAGEMENT CONSULTANCY POST

A technical qualification and experience in building or civil engineering desirable. Some knowledge and experience of work study, planning and other management techniques essential. After training in consultancy techniques, work involves advising building firms on management problems, lecturing to courses, &c.

Considerable travel in U.K. involved. Starting salary will be appropriate to experience. Applications, which will be treated as confidential, should state age, education, experience and salary required, and be addressed to **B.A.S., 82, New Cavendish Street, London, W.1.**

Civil Engineering and Building Contractors

Wel known firm of Civil Engineering and Building Contractors with headquarters in the Glasgow area are prepared to interview suitable applicants to fill the following staff appointments:—

CONTRACTS MANAGER
AGENT
GENERAL FOREMAN

Applicants to give full particulars of experience on large Civil Engineering and Building Projects. Give position held with past employers and state type of contracts for which responsible. Please note only thoroughly experienced men who can submit proof of a successful record in the industry need apply. Applications stating position applied for to

Box 1104 Wm. Porteous & Co.,
9, Exchange Place, Glasgow, C.2.

CONTRACTS MANAGER

Progressive medium-size Building Contractors in East London has vacancy for surveyor trained Contracts Manager 30/40. Very varied types of contracts. Post is permanent, progressive & pensionable.

Write full details and salary required to

Box No. 2069 "The Builder"

CLERKS OF WORKS

CLERK OF WORKS Required to supervise erection of office block for Lloyds Bank, Ltd., at Durrington, near Worthing. Approximately £250,000. Commencing beginning next month. High standard of finishes. Salary about £1,000 per annum.—FEAST AND ANDERSON, A./A.R.I.B.A., 52 Upper Berkeley-street, W.1. Paddington 4850.

CLERK OF WORKS

Applications are invited from men aged 28 to 40 with at least O.N.C. (Building) or equivalent and experience as Clerk of Works of supervising the erection, modification and repair of industrial buildings. Experience of drawing up schedules of work to be done an advantage.

This staff position is pensionable and the normal working week is 5 days, 40 hours. Commencing salary according to qualifications and experience.

Please write stating age, etc., to—

SP.A. Dept.,

MICHELIN TYRE CO. LTD.,
STOKE-ON-TRENT

quoting Ref. No. B/595/TB.

CLERK OF WORKS Required for proposed industrial project in Bradford area. Contract approximately 12 months. Candidates to be conversant with reinforced concrete barrel vault construction and be members of Institute of Clerk of Works. Applications stating salary required, age, experience and reference, to CHIPPINDALE & EDMONDSON, Chartered Architects, Empire House, Piccadilly, Bradford 1.

CLERK OF WORKS. The Private Housing Division of a National Organisation Requires a CLERK OF WORKS for their Weymouth area. Applicants should have experience of housing projects where quality is of prime importance. The position open is permanent and pensionable after a trial period. Age preferably 25 to 35 years.—MESSRS. GEORGE CALVERLEY & SONS, CONTRACTORS, Ltd., Evington Valley-road, Leicester. Tel.: 36595.

CLERK OF WORKS Required for new Junior School at Maidenhead. Salary 17 gns. per week.—Reply, giving particulars of experience and names of two referees, to PETER BOSANQUET, A.R.I.B.A., 60 St. John-street, Oxford.

BUYERS

BUYER Required to assist Senior Buyer. Experienced in placing Sub-contracts. Knowledge of scheduling an advantage.—Write stating age, experience and salary required, to Y. J. LOVELL (SUSSEX), Ltd., Contracting Department, Bishopric, Horsham.

BUYER Required by Building Contractors operating 40 miles radius of Amersham, Bucks. Must have excellent knowledge of all forms of Construction, and be capable of Taking-off requirements from Bills of Quantities or Specifications. Experience with Sub-contractor Trades an advantage.—Apply in own writing, giving full details as to age, experience and salary required, to E. S. GATES, Ltd., Chalfont Station-road, Amersham, Bucks.

ASSISTANT BUYER Required. A Junior, willing to learn would be considered, and time-off will be given for further education.—Write, stating age, experience and salary required, to Chief Buyer, CROUDACE, Ltd., 97 Godstone-road, Caterham.

QUANTITY SURVEYOR (A.R.I.C.S.) Required by Chartered Quantity Surveyors for their Lagos, Nigeria, office. Applicants should be capable of working without supervision and will be responsible for the office during the absence of the Principal. The position offers great scope to an ambitious and energtic man. Salary £1,600 to £1,850 per annum, free air fares and accommodation and car allowance. Tours of 12 to 15 months with paid leave.—Reply stating age, experience and whether married, to Box 1994, "The Builder."

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BUILDER'S ASSISTANT, N.W. London firm of General Contractors.—Reply stating age, experience and salary required, to Box 1908, "The Builder."

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ASSISTANT in Builder's office, Battersea. Age about 25. Preparation of accounts. Some knowledge of estimating and surveying essential. Opportunity for right man. Car allowance would be considered.—Write, stating age, experience and salary required, to Box 2017, "The Builder."

AGENTS

FIRST-CLASS AGENT Required for a large building contract about to commence in the Suffolk area. Applications invited from experienced men including qualified Civil Engineers.—Write giving full details of past experience and salary required, to Box 1007, c/o GEO. MURRAY (ADVG.), Ltd., Columbia House, Aldwych, W.C.2.

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SITE AGENT Required for a building contract commencing in a few weeks' time, Hants area. Application is invited from man of proven ability.—Write to AGOMBAR, 109 Elmers End-road, Beckenham, Kent, or 'phone SYD 4481/5, Ext. 18.

AGENT Required by progressive firm of Building Contractors. Initially for contract in North Wales area. Applicant must be fully conversant with, and able to take complete control of contracts up to £500,000. Salary dependent on qualifications and experience but not less than £1,750. Permanent.—Full details of experience, qualifications, age, etc., to Box 1975, "The Builder."

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Excellent terms and prospects for right men. Bonus and Pension Schemes in operation. Applications to:

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SITE FOREMAN Required for expanding company covering S.E. London/Kent area. Experience of housing contracts, reconstructions, roads and sewers.—Send full details, including present salary, to Box 1952, "The Builder."

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required for major contracts in North Wales. Only top grade men experienced in all stages of large contracts need apply. Ability to control Sub-Contractors essential. Experience of pre-planning an advantage. Salary around £1,500. Permanent. Pension Scheme. Full details, in confidence, of past experience, age, etc., to

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CLERKS

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Quote DN/QS.1

Applicants should be between 28/40 and experienced in building estimating, quantities, measuring, valuations and final accounts. Advantageous to know how to estimate for civil works and must be experienced in controlling variations and dayworks. As there are prospects of promotion to Chief Surveyor, a professional man experienced in contracting would be given preference.

BUYER

Quote DN/B.2

The Buyer should be about 30/35 and experienced in both the purchase and progress chasing of all materials and services, and in the control of stores and site equipment. A knowledge of estimating would be advantageous, but he should be able to take off the schedules for the main materials and to arrange for the import of materials.

The tour of duty of 18 months plus 3 months' leave on full pay and both positions attract good salary, bonus and conditions, including furnished accommodation, return fares for applicant, wife and family, and a car allowance with running expenses. There are no education facilities for children over 7 years.

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